

COLLEGE OF ARTS AND SCIENCES

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PROGRAM OF STUDY

Introduction

The College of Arts and Sciences is a community of about 4,300 undergraduates and 525 faculty members. It is also a graduate school and research center. Altogether it attracts faculty members whose research and scholarly and creative work require first-rate academic facilities and who bring to all their students the profound questioning and exciting ideas of current scholarship. Finally, the college exists within a university of other colleges at Cornell—about 19,500 undergraduate and graduate students and 1,578 faculty members. This wider community provides depth and diversity of applied and professional studies beyond what a college of the liberal arts and sciences alone can offer. Students studying the liberal arts and sciences may draw upon the knowledge and facilities of the other colleges at Cornell to complement their studies. Abundant variety and outstanding quality in many fields, including interdisciplinary fields, and emphasis on individual academic freedom and responsibility give the college and the university their distinctive character.

The richness of the college's undergraduate curriculum is extraordinary; there is no course that all students must take, and there are nearly 2,000 from which they may choose. By choosing courses each semester, students design their own education. They develop known interests and explore new subjects. An education in the liberal arts and sciences means honing one's critical and imaginative capacities, learning about oneself in nature and culture, and gaining experience with views of the world radically unlike one's own. All this is highly individual, and the college relies on each student and faculty advisor to design a sensible, challenging, and appropriate course of study.

Yet the college faculty believes that each student's education should have certain common qualities. These include familiarity with several different ways of knowing that are reflected in the various disciplines and fields of study. In addition to these general

areas of knowledge, students acquire effective writing and quantitative skills, study foreign languages, achieve cultural breadth, and concentrate on one particular field through which they deepen their imaginative and critical thinking as fully as possible. To accomplish these objectives, the college has certain requirements for graduation.

The College of Arts and Sciences awards one undergraduate degree, the Bachelor of Arts degree.

Summary of Requirements

1. First-year writing seminars: two courses. (See "John S. Knight Institute for Writing in the Disciplines," p. 576.)
2. Completion of one course at the nonintroductory level or above (Option 1) or at least 11 credits in one language (Option 2); one to three courses.
3. Distribution: nine courses (may overlap with courses counting toward a major).
4. Breadth: two courses (may overlap with courses for distribution, major, or electives).
5. Major (see individual department listings for major requirements).
6. Electives: four or five courses (at least 15 credits) not used to fulfill other requirements (other than the breadth requirements) and not in the major field.
7. Residence: eight full-time semesters, unless a student can successfully complete all other requirements in fewer than eight semesters and meet the additional criteria to accelerate graduation. (See "Acceleration" below.)
8. 34 courses: a 3- or 4-credit course counts as one course. A 2-credit course counts as half a course; a 1-credit course does not normally count toward the requirement; a 6-credit language course counts as one and one-half courses. (See "Courses and Credits" for some 1-credit courses in music, dance, and theatre performance that can be cumulated to count as one-half course.)
9. Credits: a total of 120 academic credits, of which 100 must be taken in the College of Arts and Sciences at Cornell. (See "Noncredit Courses" below for courses that do not count as academic credits or courses.)
10. Physical education: completion of the university requirement (passing a swim test and two 1-credit nonacademic courses). Note: Physical education credit does not count toward graduation or toward the 12-credit minimum required for good academic standing each semester.
11. Application to graduate. (See "Graduation.")

Explanation of Requirements

Foreign Language Requirement

The faculty considers competence in a foreign language essential for an educated person. Studying a language other than one's own helps students understand the problematics of language, our fundamental intellectual tool, and enables students to understand another culture. The sooner a student acquires competence, the sooner it will be useful. Hence, work toward the foreign language requirement should be undertaken in the first two years. Courses in foreign languages and/or literature are taught in the College of Arts and Sciences by the following departments: Africana Studies and Research Center, Asian Studies, Classics, German Studies, Linguistics, Near Eastern Studies, Romance Studies, and Russian Literature.

The language requirement may be satisfied in one of the following ways:

Option 1: Passing (a) a nonintroductory foreign language course of 3 or more credits at Cornell at the 200 level or above or (b) any other nonintroductory course conducted in a foreign language at Cornell. **OR**

Option 2: Passing at least 11 credits of study in a single foreign language at Cornell.

Any exceptions to these rules will be noted elsewhere in individual department descriptions.

Students whose speaking, reading, and writing competence in a language other than English is at the same level we would expect our entering freshmen to have in English (as shown by completing high school in that language or by special examination during their first year here at Cornell) are exempt from the college's language requirement.

Placement

Entering students who have had two or more years of high school study in a language, who have been awarded credit for language work at another college or university, or who are native speakers, bilingual, or have spoken the language at home, may enroll in a course in the same language only after being placed by examination. The placement exam may have been taken in high school (SAT II, taken after the last course, or AP, if the score was 4 or 5) or at Cornell (LP test). Students may, but need not, retake a language test if a year or more has passed since last taking it. Being placed by examination into the first course at a nonintroductory level does not earn credit toward the degree. Degree credit is earned only for demonstrated mastery of work equivalent to the first course at an intermediate level at Cornell and placement into the second intermediate course. Students should seek to satisfy the language requirement in their first years at Cornell. Those with test scores one or more years old may be required to take a Cornell placement test if the instructor deems the student is not adequately prepared for the level in which he or she has enrolled.

French

Placement Tests LPF	SAT II	Language Courses	Literature Courses
below 37	below 410	121	
37-44	410-480	122	
45-55	490-590	123	
56-64	600-680	206 209	
65 and above	690 and above	CASE required for placement in language.	
AP 4 or 5 in language, 3 credits		CASE required for placement in language.	
AP 4 or 5 in literature, 3 credits and proficiency		CASE required for placement in language.	

German

Placement Tests LPG	SAT II	Language Courses	Literature Courses
below 37	below 370	121	
37-44	370-450	122	
45-55	460-580	123	
56-64	590-680	200	200
65 and above	690 and above	CASE required for placement	
AP 4 or 5, 3 credits		CASE required for placement	

Italian

Placement Tests LPI	SAT II	Language Courses	Literature Courses
below 37	below 370	121	
37-44	370-450	122	
45-55	460-580	123	
56-64	590-680	209	
65 and above	690 and above	CASE required for placement	
AP 4 or 5 in language, 3 credits		CASE required for placement	
AP 4 or 5 in literature, 3 credits and proficiency		CASE required for placement	

Spanish

Placement Tests LPS	SAT II	Language Courses	Literature Courses
below 37	below 370	121	
37-44	370-450	112 122	
45-55	460-580	123	
56-64	590-680	200 209 207	
65 and above	690 and above	CASE required for placement	
AP 4 or 5 in language, 3 credits		CASE required for placement	
AP 4 or 5 in literature, 3 credits and proficiency		CASE required for placement	

Placement Tests and Advanced Placement Credit

1. The following language placement and advanced standing tests are scheduled at the beginning of each semester:

- Chinese (Cantonese and Mandarin), Hindi, Japanese, and Korean (schedule available from Department of Asian Studies, 350 Rockefeller Hall);
- German (schedule available from Department of German Studies, 183 Goldwin Smith Hall);
- French, Italian, and Spanish (schedule available from Department of Romance Studies, 303 Morrill Hall);
- Russian (schedule available from Department of Russian, 226 Morrill Hall).

The advanced standing examination in French, German, Italian, Russian, and Spanish, is called the CASE (Cornell Advanced Standing Examination). Eligibility for the CASE may be determined from the placement tables. *In Russian only, all students seeking placement take the CASE.*

Native speakers of Spanish who have completed their secondary education in a Spanish-speaking country do not take the CASE. For these students, the Spanish program offers a walk-in service, the Native Language Accreditation for Spanish, in the third week of September and the first week of February. Students interested in this service should contact Eleanor Dozier in 414 Morrill Hall. Speakers of Spanish who completed their secondary education in a non-Spanish-speaking country are required to present either SAT II or AP or LPS scores for placement, or for eligibility to take the CASE exam.

2. Arabic: departmental examination, Department of Near Eastern Studies, 409 White Hall.
3. Greek, ancient: departmental examination, Department of Classics, 120 Goldwin Smith Hall.
4. Hebrew: departmental examination, Department of Near Eastern Studies, 409 White Hall.
5. Latin: departmental examination, Department of Classics, 120 Goldwin Smith Hall.
6. Persian: departmental examination, Department of Near Eastern Studies, 409 White Hall.
7. Turkish: departmental examination, Department of Near Eastern Studies, 409 White Hall.

Substitutions to the Language Requirement

Outright waivers of the requirement are never granted. However, rarely and as appropriate, alternatives to language acquisition are approved. Legitimate requests for substitutions require strong, convincing evidence of inability to learn foreign languages in a classroom setting. A poor grade in a Cornell introductory language course or taking the

LP exam repeatedly and unsuccessfully is not adequate evidence of disability.

Students who wish to request a substitution for this requirement should meet with Dean Peggy Walbridge, Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall. If Dean Walbridge determines that the request has merit, the student meets with the Language Substitution Review Committee. This committee makes the final decision for or against a substitution. If a substitution is allowed, the committee works with the student to select appropriate substitute courses.

Distribution Requirements

In satisfying the distribution requirements, students become acquainted with a broad range of subject matter and points of view among disciplines in the college and explore areas that may be entirely new to them. Or, to look at it the other way, as first-year students explore subjects that interest them, they begin to satisfy distribution requirements. Consequently, first-year students should take courses to prepare for possible majors and to explore subjects new to them and take no course only in order to satisfy a distribution requirement. Although students may complete distribution requirements over eight semesters, they can take advanced courses in subjects they (perhaps unexpectedly) find intriguing only if they have completed the introductory prerequisites. Consequently, students should not postpone satisfying distribution requirements until the last semesters. Once sure of a major, students should consider which distribution requirements are yet unfulfilled and how to fulfill them with courses that complement their overall program. Courses in the major may be applied to the distribution requirements (unless prohibited by one of the restrictions noted under restrictions on applying AP credit, transfer credit, and Cornell courses to distribution requirements).

Students must complete four courses in science and quantitative reasoning, identified below under the categories Physical and Biological Sciences (PBS) and Mathematics and Quantitative Reasoning (MQR). In addition, they must complete five courses of 3 or more credits each from five categories of courses in the humanities and social sciences; they must include at least one course from four different categories and no more than three in the same department. The five categories of courses fulfilling the distribution requirements in humanities and social sciences are: Cultural Analysis (CA), Historical Analysis (HA), Knowledge Cognition and Moral Reasoning (KCM), Literature and the Arts (LA), and Social and Behavioral Analysis (SBA). How an individual course is categorized is indicated with the appropriate abbreviation in its description under its department.

• Cultural Analysis (CA)

Courses in this area study human life in particular cultural contexts through interpretive analysis of individual behavior, discourse, and social practice. Topics include belief systems (science, medicine, religion), expressive arts and symbolic behavior (visual arts, performance, poetry, myth, narrative, ritual), identity (nationality, race, ethnicity, gender, sexuality), social groups and institutions (family, market, community),

power and politics (states, colonialism, inequality).

• Historical Analysis (HA)

Courses in this group interpret continuities and changes—political, social, economic, diplomatic, religious, intellectual, artistic, scientific—through time. The focus may be on groups of people, dominant or subordinate, a specific country or region, an event, a process, or a time period.

• Knowledge, Cognition, and Moral Reasoning (KCM)

Offerings in this area investigate the bases of human knowledge in its broadest sense, ranging from cognitive faculties shared by humans and animals such as perception, to abstract reasoning, to the ability to form and justify moral judgments. Courses investigating the sources, structure, and limits of cognition may use the methodologies of science, cognitive psychology, linguistics, or philosophy. Courses focusing on moral reasoning explore ways of reflecting on ethical questions that concern the nature of justice, the good life, or human values in general.

• Literature and the Arts (LA)

Offerings in this area explore literature and the arts in two different but related ways. Some courses focus on the critical study of artworks and on their history, aesthetics, and theory. These courses develop skills of reading, observing, and hearing and encourage reflection on such experiences; many investigate the interplay among individual achievement, artistic tradition, and historical context. Other courses are devoted to the production and performance of artworks (in creative writing, performing arts, and media such as film and video). These courses emphasize the interaction among technical mastery, cognitive knowledge, and creative imagination.

• Social and Behavioral Analysis (SBA)

Courses in this area examine human life in its social context through the use of social scientific methods, often including hypothesis testing, scientific sampling techniques, and statistical analysis. Topics studied range from the thoughts, feelings, beliefs, and attitudes of individuals to interpersonal relations between individuals (e.g., in friendship, love, conflict) to larger social organizations (e.g., the family, society, religious or educational or civic institutions, the economy, government) to the relationships and conflicts among groups or individuals (e.g., discrimination, inequality, prejudice, stigmas, conflict resolution).

• Physical and Biological Sciences (PBS)

In fulfilling the four courses in science and quantitative reasoning, students must take at least two science courses. At least one of these must be from the primary list of courses in science departments in the College of Arts and Sciences.

Primary list:

(The courses listed individually are all cross-listed in an A&S science department.)

Animal Science

427 Fundamentals of Endocrinology

Anthropology

208 Anthropology of Human Mating
275 Human Biology and Evolution
371 Human Paleontology
474 Lab and Field Methods in Human Biology

Applied and Engineering Physics

217 Physics II: Electricity and Magnetism
363 Electronic Circuits
450 Introduction to Solid-State Physics
470 Biophysical Methods

Astronomy: all 3- or 4-credit courses

Biological Sciences: all 3- or 4-credit courses (including any combination of two courses from BIO 101-104) except BIO G 209, 299, 498; BIOEE 362; BIOMI 172; BIOBM 321; BIONB 423 and BIOSM 204. BIO G 200 and 499 require permission from the Office of Undergraduate Biology.

Biological and Environmental Engineering

456 Biomechanics of Plants

Biology and Society

214 Biological Basis of Sex Differences
447 Seminar in the History of Biology
461 Environmental Policy

Biomedical Engineering

441 Computer in Neurobiology

Chemistry and Chemical Biology

all 3- or 4-credit courses

Cognitive Studies

111 Brain, Mind, and Behavior
330 Introduction to Computational Neuroscience

Crop Science

398 Environmental Microbiology

Earth and Atmospheric Sciences

all courses except 150, 250, 435

Engineering

122 Earthquake!

Entomology

325 Insect Behavior
400 Insect Development
452 Herbivores and Plants
453 Historical Biogeography
455 Insect Ecology
456 Stream Ecology

Feminist, Gender, & Sexuality Studies

214 Biological Basis of Sex Differences

Food

394 Applied and Food Microbiology

Human Development

220 The Human Brain and Mind

History

287 Evolution
415 Seminar in the History of Biology

Horticulture

243 Taxonomy of Cultivated Plants

Music

204 Physics of Musical Sound

Natural Resources

321 Introduction to Biogeochemistry
456 Stream Ecology

Nutritional Science

275 Human Biology and Evolution
475 Mammalian Developmental Defects

Physics

all 3- or 4-credit courses except 209

Psychology

- 111 Brain, Mind, and Behavior
- 322 Hormones and Behavior
- 324 Biopsychology Laboratory
- 330 Introduction to Computational

Neuroscience

- 332 Biopsychology of Learning and Memory
- 396 Introduction to Sensory Systems
- 424 Neuroethology
- 429 Olfaction and Taste: Structure and Function
- 431 Effects of Aging on Sensory and Perception Systems
- 460 Human Neuroanatomy
- 492 Sensory Function

Science and Technology Studies

- 287 Evolution
- 447 Seminar in the History of Biology

Visual Studies

- 492 Sensory Function

Students may select additional science courses from the following **supplementary list**:

Animal Science

- 100 Domestic Animal Biology I
- 150 Domestic Animal Biology II
- 212 Animal Nutrition

Anthropology

- 101 Human Evolution: Genes, Behavior, and the Fossil Record
- 370 Environmental Archaeology
- 375 Evolutionary Theory and Human Behavior
- 390 Primate Behavior and Ecology
- 463 Zooarchaeological Method
- 464 Zooarchaeological Interpretation

Applied and Engineering Physics

- 110 Lasers and Photonics

Archaeology

- 370 Environmental Archaeology
- 463 Zooarchaeological Method
- 464 Zooarchaeological Interpretation

Cognitive Studies

- 220 The Human Brain and Mind

Dance

- 312 The Moving Body: Form and Function

Electrical Engineering

- 430 Lasers and Optical Electronics

Engineering

- 110 Lasers and Photonics

Entomology

- 201 Alien Empire: Bizarre Biology of Bugs (3 cr.)
- 210 Plagues and People (3 cr.)
- 212 Insect Biology
- 277 Natural Enemies: An Intro to Biological Control (3 cr.)
- 315 Spider Biology

Food

- 200 Introductory Food Science

Human Development

- 220 The Human Brain and Mind

Materials Science and Engineering

- 281 The Substance of Civilization

Natural Resources

- 201 Environmental Conservation
- 210 Introductory Field Biology
- 420 Forest Ecology

Nutritional Science

- 115 Nutrition and Health
- 361 Biology of Normal and Abnormal Behavior

Psychology

- 223 Introduction to Biopsychology
- 326 Evolution of Human Behavior
- 361 Biology of Normal and Abnormal Behavior

- **Mathematics and quantitative reasoning (MQR)**

In completing four courses in science and quantitative reasoning, students must take at least one of the following courses (note that EDUC 115 Introductory College Mathematics, counts neither toward the college degree nor toward distribution):

Applied Economics and Management

- 210 Introductory Statistics

Biochemistry, Molecular and Cell Biology

- 321 Numerical Methods in Computational Molecular Biology

Biometry

- 301 (formerly 261) Statistical Methods

City and Regional Planning

- 321 Introduction to Quantitative Methods
- 328 Quantitative Methods in Policy Planning

Cognitive Studies

- 172 Computation, Information, and Intelligence
- 424 Computational Linguistics
- 476 Decision Theory
- 477 Decision Theory II

Computer Science

- 100 Introduction to Computer Programming
- 172 Computation, Information, and Intelligence
- 211 Computers and Programming
- 280 Discrete Structures
- 312 Data Structures and Functional Programming
- 321 Numerical Methods in Computational Molecular Biology
- 324 Computational Linguistics
- 486 Applied Logic

Ecology and Evolutionary Biology

- 362 Dynamic Models in Biology

Earth and Atmospheric Science

- 435 Statistical Methods in Meteorology and Climatology

Economics

- 319 Introduction to Statistics and Probability
- 320 Introduction to Econometrics
- 321 Applied Econometrics
- 325 Cross Section and Panel Econometrics
- 327 Time Series Econometrics
- 368 Game Theory
- 405 Auction Seminar
- 431 Monetary Economics
- 476/477 Decision Theory I and II

Engineering

- 115 Engineering Applications of OR&IE
- 172 Computation, Information, and Intelligence
- 211 Computers and Programming
- 321 Numerical Methods in Computational Molecular Biology

Industrial and Labor Relations

- 212 Statistical Reasoning

Linguistics

- 424 Computational Linguistics
- 483 Intensional Logic
- 485 Topics in Computational Linguistics

Mathematics

- all 3- or 4-credit courses except 101 and 109

Philosophy

- 231 Introduction to Deductive Logic
- 330 Foundations of Mathematics
- 331 Deductive Logic
- 383 Choice, Chance, and Reason
- 431 Mathematical Logic
- 432 Topics in Logic
- 436 Intensional Logic

Physics

- 209 Relativity and Chaos

Policy Analysis and Management

- 210 Introduction to Statistics

Psychology

- 350 Statistics and Research Design

Sociology

- 301 Evaluating Statistical Evidence

If students choose two courses from this list to satisfy part of the distribution requirement, those two courses may not have significant overlap. For example, students may not choose two beginning courses in statistics. Nor may they earn credit toward the degree for overlapping courses: BTRY 301 (formerly 261) Statistical Methods I, CRP 223 Introduction to Statistical Reasoning, ECON 321 Applied Econometrics, ILRST 212 Statistical Reasoning, MATH 171 Statistical Theory and Application in the Real World, PSYCH 350 Statistics Research and Design, SOC 301 Evaluating Statistical Evidence.

Breadth Requirements

Students must include in their undergraduate program at least one Arts and Sciences course that focuses on an area or a people other than those of the United States, Canada, or Europe and one course that focuses on an historical period before the 20th century. Courses that satisfy the geographic breadth requirement are marked with an @ when described in this catalog. Courses that satisfy the historical breadth requirement are marked with a #. Many courses satisfy both requirements, and students may in fact use the same course to satisfy both. Students may use courses satisfying distribution, major, or elective—but not writing—requirements in satisfaction of either of the breadth requirements. They may also apply Cornell courses (not credit from an examination) conferring proficiency in a non-Western language toward the geographical breadth requirement.

Restrictions on Applying AP Courses and Credit from Other Institutions to the Distribution Requirements

Students may not apply AP credit or transfer credit from another institution to the breadth requirements or to any distribution requirement.

Students who transfer to the college from another institution are under the above rules for advanced placement credit, but are eligible to have credit for post high school course work taken during regular semesters (not summer school) at their previous institution count toward all distribution requirements. Transfer students receive a detailed credit evaluation when they are accepted for admission.

Restrictions on Applying Cornell Courses to the Distribution and Breadth Requirements

1. First-year writing seminars may not count toward any other college requirement.
2. No single course may satisfy more than one distribution requirement.
3. Students may count courses in their major toward distribution and breadth.

The Major

In their last two years, students devote roughly one-half their time to acquiring depth and competence in a major subject. The major does not necessarily define a student's intellect or character or lead directly to a lifetime occupation, although it sometimes does some of each. Through the major, students focus and develop their imaginative and intellectual capacities through a subject they find especially interesting.

Most departments and programs specify certain prerequisites for admission to the major; they are found on the following pages in the descriptions of each department and program.

Students may apply for acceptance into the major as soon as they have completed the prerequisites and are confident of their choice. This may be as early as the second semester of freshman year, and must be no later than second semester of sophomore year. To apply, they take a copy of their official transcript to an appointment with the director of undergraduate studies in their prospective major. A department or program may refuse admission into the major if the applicant's performance does not meet established standards. A student without a major at the beginning of the junior year is not making satisfactory progress toward the degree. That student must meet with an advising dean and may not be allowed to continue in the college.

Available majors

Majors are offered by each of the departments. There are also majors in American Studies, Archaeology, Biology and Society, Information Science, Religious Studies, Science of Earth Systems, and Feminist, Gender, and Sexuality Studies.

Some students want to pursue a subject that cannot be met within an established major. They may plan, with the help of their faculty advisor, an independent major that includes courses from several departments and even colleges. See "Independent Major Program," under "Special Academic Options." Whatever the major—chemistry, math, philosophy, or music—graduates from the College of Arts and Sciences earn the one degree the college awards, a Bachelor of Arts.

Double majors

Only one major is required for graduation. Some students choose to complete two or even more majors. No special permission or procedure is required; students simply become accepted into multiple majors and find an advisor in each department. All completed majors are posted on the official transcript. However, even though courses in a second major count among the required 15 credits of electives (see immediately below), double majoring can constrict the variety of electives that might be valuable for an education in

the liberal arts and sciences. Students should "double major" only if their intellects and deep interests direct them to do so.

Electives

Of the 34 courses and 120 credits required for graduation, almost one-third are free electives. How students use these electives frequently makes the difference between an ordinary and a truly interesting course of study. Students must complete at least four courses and at least 15 credits offered outside the major field and not used to fill another requirement except breadth. AP credits not otherwise used may fulfill elective requirements. Students may group electives to complete one of the established interdisciplinary concentrations or may form their own unofficial concentration or "minor" separate from their major. Students may also group electives into a second major. Since only one major is required, students may count courses in a second major as electives. Some students choose to explore a variety of subjects; some develop a concentration in a department or subject outside Arts and Sciences to gain applied training or specialized knowledge.

Residence

The College of Arts and Sciences is a residential community for students who devote their energy and spirit to full-time study. The faculty believes that integrated, full-time study for a defined period best promotes intellectual and creative development and best prepares people for citizenship and careers.

Consequently, eight semesters of full-time study in the College of Arts and Sciences are integral to earning the B.A. degree. Even if the minimum requirements can be met in fewer semesters, the faculty of the college expects students to take advantage of the resources of the university for eight full semesters and obtain as rich and advanced an education in the liberal arts and sciences as possible. Students may complete their undergraduate degrees with credits earned at other institutions or as part-time or summer students at Cornell only if they have completed their eight full-time semesters of residence or satisfied the criteria listed below under "Part-time study in final semester."

For transfer students from other institutions, each full semester of study at their previous institution counts as one of the eight semesters of residence. However, even if transfer students have completed more than four full semesters at their previous institution, they must spend a minimum of four semesters on the Cornell campus in Ithaca enrolled in the College of Arts and Sciences. Internal transfers from other colleges at Cornell must spend four semesters on campus in Ithaca as students in the Internal Transfer Division or in the college.

Approved study abroad, SEA Semester, Urban Semester, FALCON, and Cornell in Washington are considered semesters of residence but not semesters on the Cornell campus. Students may spend no more than two semesters on such programs and must be on campus during their last semester. Semesters of extramural study in Cornell's School of Continuing Education, semesters of study at other institutions while on leave from Cornell, and summer sessions anywhere do not count as semesters of residence.

Acceleration

Some students decide that they do not need eight semesters of residence to obtain a solid undergraduate education. These students must compress the first four semesters and spend four full semesters in the major. Benefitting from opportunities for advanced, seminar, and independent (sometimes honors) work is what best characterizes undergraduate education in the college. Students considering acceleration should discuss their plans with their major advisor.

Accelerants apply to graduate one semester before their intended new graduation date. They obtain an "Application to Graduate" for this purpose in the Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall. Accelerants must complete:

1. All graduation requirements except for the residency requirement (120 total credits, 100 Arts and Sciences credits, 34 courses, all college requirements, and the university's physical education requirement).
2. Either condition *a* or *b*:
 - a. 60 credits before beginning their last four semesters in the college and the prerequisites for admission to the major in time to spend *four* semesters in the major.
 - b. 48 credits in College of Arts and Sciences courses numbered 300 and above and prerequisites for admission to the major in time to spend *four* semesters in the major. Upper-level courses taken in other colleges at Cornell University may count toward the 48 only if approved as part of the major.
3. 100 credits at Cornell at "C" (not C-) or above. Courses completed with a grade of "S" will count toward the 100 credits. Advanced placement and transfer credits do not count toward this requirement.
4. Students may not use credits earned while on leave of absence to reduce their terms of residence. In other words, they must be eligible to accelerate without applying any credit toward the degree that they earned while on leave.
5. Accelerants may not finish the degree with credits earned through part-time study (unless they meet the guidelines for part-time study), or at an off-campus program, including Cornell in Washington, SEA Semester, Urban Semester, or study abroad. That is, they may not exit through any program other than a regular, full-time Cornell semester in Ithaca.

Students matriculating as freshmen may not compress their undergraduate education into fewer than six semesters of residence. Transfer students, both from other institutions and from other colleges at Cornell, must satisfy the eight-semester residence requirement and must spend at least four semesters in the college on campus in Ithaca.

Ninth semester

Students who can graduate in eight semesters should do so. If a worthy academic plan for a full ninth or tenth semester is approved, the student enrolls in the college as a special student for the additional work. Such a status allows enrollment in a full schedule of

courses and full access to campus resources for full tuition, but allows financial aid only from loans or outside agencies, not from Cornell funds. Students who need fewer than 12 credits in a ninth or tenth semester to graduate should complete the outstanding courses and pay prorated tuition. Students may spend a ninth semester with Cornell aid only with permission of the Committee on Academic Records. Such permission is normally granted only to:

1. Students who have been ill or experienced other untoward circumstances beyond their control.
2. Students who were academically underprepared for the curriculum at Cornell and needed to begin with a lighter schedule of courses than normal. (See Dean Turner, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, about this option.)

Part-time study

Students in good academic standing may take a personal leave of absence and enroll in the School of Continuing Education, but such semesters of extramural study do not count as terms of residence and credits from such semesters may not be used to reduce the terms of residence.

Part-time study in special circumstances

The college and university support students (with financial aid and services) as best they can to make full-time study possible. Occasionally, however, extraordinary but nonfinancial personal, academic, or medical circumstances make studying part-time temporarily necessary and appropriate. Students in good academic standing who face extraordinary situations may petition the Committee on Academic Records for a part-time schedule and proration of tuition in the college.

Part-time study in final semester

Students may complete their degrees with part-time study and pay prorated tuition at Cornell after fewer than eight semesters of full-time residence only if:

1. They have completed all requirements by the end of the sixth or seventh semester, met the criteria for accelerated graduation, and are remaining to complete study beyond what is required for the degree.
2. They are writing an honors thesis in the eighth semester and can complete all degree requirements by taking exactly two courses, one of which is the thesis itself. They must register for the thesis and one additional course.

Students must obtain approval of an advising dean and complete the prorated tuition form in the semester before or during the first three weeks of the semester and confirm their status and registration with college registrar Sally O'Hanlon in 55 Goldwin Smith Hall.

Courses and Credits

Counting courses and credits

Students must complete at least 34 courses to graduate—that is, an average of four courses during each of six semesters and five courses during each of two semesters. A 3- or 4-credit course counts as one course; a 2-credit course counts as one-half course. Single-credit courses do not count as part of the 34 except in certain cases when they form

a part of a series and two in the same series can be aggregated to count as one-half course (certain offerings in the Department of Music and Department of Theatre, Film and Dance fall into this category). Three 1-credit courses do not aggregate to count as one course.

A 6-credit language course counts as 1 1/2 courses, while the summer FALCON Programs in Asian languages count as 8 credits and two courses each and regular semester FALCON counts as 16 credits and four courses.

Archaeology and geology fieldwork for more than 6 credits counts as two courses each. BIOGD 281 counts as 1 1/2 courses. Other 5- or 6-credit courses count as one course. Courses students place out of with AP credit count toward the 34.

Students must also complete 120 credits, 100 of which must be from courses taken in the College of Arts and Sciences at Cornell. Liberal arts courses approved for study abroad during a semester or academic year of full-time study (not summer study) and courses taken in certain off-campus Cornell residential programs may be counted toward the 100 credits required in the college. Advanced placement credits, credits earned in other colleges at Cornell, or credits earned in any subject at institutions other than Cornell do not count as part of the 100. The only exceptions to the above restrictions are for courses (usually no more than three) that certain departments accept from other colleges at Cornell as fulfilling major requirements (and substituting for A&S courses) and for up to two courses that an advisor accepts as part of a completed and formally established cross-college, interdisciplinary concentration.

Using courses toward more than one requirement

A course may fulfill more than one college requirement in the following situations:

1. A course may be used to fulfill a distribution, breadth, and also a major requirement (except as noted under previous section of restrictions on applying AP credits, transfer credits, and Cornell courses to distribution requirements).
2. A one-semester course in foreign literature (not language) or culture that is acceptable for achieving proficiency or certifying Option I in that language may also be applied to the relevant distribution requirement and, if appropriate, to the breadth requirement.
3. Courses may count toward breadth requirements and toward any other requirement except first-year writing seminars.
4. Courses in a second major may count as electives.

Auditing

The college encourages its students to take advantage of its rich curriculum by sitting in on courses that interest them but that they prefer not to take for credit. As long as the instructor agrees, students are welcome to visit courses. Small seminars and language courses are sometimes not open to visitors. Audited courses do not appear on the student's schedule or transcript.

Repeating courses

Students occasionally need to repeat courses. If the instructor certifies that the course content is

different, credit is granted a second time. If the content is the same, both grades nonetheless appear on the transcript and are included in any GPA that is calculated, but the course and credit count toward the degree only once. Repeated courses do not count toward the 12 credits required for good standing. Students considering repeating a course under this circumstance should discuss the matter with their advisor and an advising dean. Students who plan to repeat a course submit a petition to the college registrar, Sally O'Hanlon, 55 Goldwin Smith Hall. If the original course grade was F, no petition is necessary.

Courses that do not count toward the degree

The college does not grant credit toward the degree for every course offered by the university. Courses in military training, training as emergency medical technician, service as a teaching assistant, physical education, remedial or developmental reading, precalculus mathematics (including EDUC 115), supplemental science and mathematics offered by the Learning Strategies Center, English as a second language, keyboarding, and shorthand are among those for which degree credit and credit toward the 12 credits required for good academic standing are not given. Additional information can be found at: www.arts.cornell.edu/stu-adv/coursesdontcount.php.

Students enrolled in courses for undergraduate teaching assistants may petition once to have the nondegree credits count toward good academic standing. This would allow continued eligibility for graduating with distinction in all subjects, but would disqualify the student from being on the dean's list that semester.

Advanced placement credit

See p. 8. Advanced placement credits count as part of the 120 credits and 34 courses required for the degree. They do not count as part of the 100 credits required in Arts and Sciences at Cornell; their application to distribution and breadth requirements is restricted or prohibited, as explained previously under "Restrictions." AP credits are posted on the transcript during the summer between the freshman and sophomore years, after students have decided whether to accept the credit or forfeit it by taking the Cornell course they had placed out of.

Summer session credit

A student may earn credit toward the degree by completing courses in Cornell's summer session or by successfully petitioning for credit for summer courses at other colleges. Students should consult their advisors regarding summer study plans.

Credit for summer courses not taken at Cornell must be approved by the appropriate Cornell department. Approval forms and information are available online, www.arts.cornell.edu, and in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall. Transcripts for completed work at other institutions must be sent to Robin Perry, 172 Goldwin Smith Hall. Credit approved for summer courses away from Cornell (including summer courses abroad) counts toward the 120 credits and 34 courses required for the degree, but not toward the 100 credits required in the college at Cornell. It may not be applied to breadth requirements but may be applied to elective

requirements and to major requirements (with the approval of the department).

Entering students who want to receive credit toward the degree for courses completed before matriculation in a summer session away from Cornell should obtain approval forms as soon as possible and have transcripts sent to Robin Perry, 172 Goldwin Smith Hall. Credits completed in Cornell summer sessions will be awarded automatically.

Summer session at Cornell or elsewhere does not count toward the eight-semester residence requirement. Students are permitted to earn up to 12 credits in one summer.

Transferring credit earned away from Cornell while on leave of absence

See "Leaves of Absence."

Transferring credit (for transfer students from another institution or from another Cornell college)

Transfer students must satisfy all normal requirements for the degree, including eight semesters of full-time study. They must always complete at least 60 credits and 16 courses at Cornell and be in residence on campus in the college for at least four regular semesters (summer session does not count toward the residence requirement). The college evaluates credit and residence earned either at another school or college at Cornell University or at another accredited institution of collegiate rank and determines the number of credits and courses the student may apply toward the various requirements for the bachelor of arts degree at Cornell. In addition, it reevaluates advanced placement credit allowed by another institution, including another college at Cornell. Evaluations of transfer credits are normally provided when students are notified of their admission. Once matriculated in Arts and Sciences at Cornell, transfer students must adhere to the same rules for transferring credit earned on leave as all other students.

SPECIAL ACADEMIC OPTIONS

Degree Programs

The following four programs allow students to alter the regular college or major requirements or to work toward more than one degree.

College Scholar Program

The College Scholar Program is meant to serve students whose interests and talents would benefit from a little more academic freedom than other students have, who demonstrate exceptional promise, and who show the maturity to plan and carry out, with the help of their advisor, a well-designed program of study. College Scholars design idiosyncratic programs: some pursue diverse interests; others integrate a variety of courses into a coherent subject. Up to 40 students in each class are accepted into the program.

College Scholars must complete 120 credits of course work (100 in the college), 34 courses, and, unless they receive permission from the program to accelerate, eight full terms of undergraduate study but are not required to fulfill the other usual college requirements for the degree. They must, however, also complete the university's physical education requirement. All college scholars must complete a senior project. Although they are

not required to complete or fulfill the general education requirements, members of the College Scholar Advisory Board believe that the spirit of those requirements is good.

Each applicant to the College Scholar Program is asked to write an essay, which is due the last Wednesday of classes before final exams in spring of the freshman year. Students should contact Dean Ken Gabard, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information.

Dual-Degree Program with Other Colleges

The Dual-Degree Program enables especially ambitious undergraduate students to pursue programs of study in two colleges. Dual-degree candidates may earn both a Bachelor of Arts degree from the College of Arts and Sciences and: (1) a bachelor of science degree from the College of Engineering; or (2) a bachelor of fine arts degree from the Department of Art in the College of Architecture, Art, and Planning; or (3) a bachelor of science degree in urban and regional studies from the Department of City and Regional Planning in the College of Architecture, Art, and Planning; or (4) a bachelor of science degree in architectural history from the Department of Architecture in the College of Architecture, Art, and Planning. Students enter one of these colleges as freshmen or sophomores and begin the Dual-Degree Program with the second college in the second or, in some cases, the third year. The Dual-Degree Program ordinarily takes five years to complete, and students are eligible for 10 semesters with financial aid. For further information contact Dean Kay Wagner in the Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

Independent Major Program

The Independent Major Program allows students to design their own interdisciplinary majors and pursue a subject that cannot be found in an established major. Proposals for an independent major must be equivalent in coherence, breadth, and depth to a departmental major, well suited to the student's academic preparation, and consistent with a liberal education. Proposals must also be supported by a faculty advisor and are assessed by a board of faculty members. Independent majors substitute for established majors, but students must still satisfy all the other requirements for the bachelor's degree. Students should contact Dean Jim Finlay, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information. Deadlines for submitting independent major proposals are listed on the calendar supplement for the College of Arts and Sciences.

Double Registration with and Early Admission to Professional Schools

Registration in the senior year of the College of Arts and Sciences and the first year of Cornell Law School or the Johnson Graduate School of Management is occasionally possible. A very few exceptionally well-prepared students who have earned 105 credits before the start of the senior year and have been accepted by one of the above-named professional schools may be permitted to register simultaneously in the college and in one or another of these professional schools during the seventh and eighth terms.

They earn the B.A. degree after the first year of professional school.

Students with 8 or fewer credits and two or fewer courses to complete may apply to enter the Master's of Engineering program during (but no earlier than) their eighth semester; dual-degree students may enter this program no earlier than the ninth semester. They earn the bachelor degree(s) after one semester of graduate school.

Students interested in the joint program with the Law School or the Graduate School of Management, or in early admission to the master's of engineering program should apply to the relevant program. All candidates should confirm their eligibility with an advising dean, Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

Double-registered students must, of course, complete all requirements for the B.A. degree, including 100 credits in Arts and Sciences courses.

Teacher Education

Students at Cornell may pursue teaching credentials in agriculture, biology, chemistry, earth science, general science, mathematics, and physics. Cornell students from any college are encouraged to apply for admission to the Cornell Teacher Education Program during their sophomore or junior year. Those who are admitted complete their undergraduate major in an agricultural science, mathematics or one of the sciences, while taking education courses. They are then able to complete a master of arts in teaching (MAT) in one year and earn certification in New York State. Students in agricultural science *may* be able to complete certification requirements as undergraduates.

For more information, contact the program coordinator at 255-9573.

Special-Interest Options

The following options enable students to pursue special interests within the usual degree programs.

Concentrations

Established interdisciplinary concentrations, described in alphabetical order along with departments in the pages following, provide structures for organizing electives. Completed concentrations are noted on the transcript.

Informal Minors

Some students organize electives within a discipline or department in Arts and Sciences or another college. Such informal minors can be developed with the help of the departmental directors of undergraduate studies. They are not noted on the transcript.

Independent Study

Independent study affords students the opportunity to pursue special interests or research not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the independent course, must approve the proposed study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study (proposal forms are available in the Office of Undergraduate Admissions and Advising, 55 and 172 Goldwin Smith Hall). In one semester students may

earn up to 6 credits with one instructor or up to 8 credits with more than one instructor. Students who are being paid for assisting faculty in research *cannot* earn course credit for that work.

Undergraduate Research

An excellent way to benefit from being an undergraduate at a research university, at Cornell in particular, is to become an apprentice in ongoing faculty research. About 400 students participate each year in creating new knowledge and earn independent study credit for what they learn and contribute. They sharpen their critical and creative abilities and test their interest in pursuing a research career. Sometimes they publish their work.

The Cornell Undergraduate Research Board, an undergraduate organization, conducts an annual open house to help students get started in research and an annual forum at which undergraduates present their work. See www.rso.cornell.edu/curb/.

Students interested in this program should consult Dean David DeVries in the Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall, or consult www.research.cornell.edu/undergrad/.

Language Study

FALCON (Full-Year Asian Language Concentration). FALCON allows students who are interested in the Far East to study Chinese or Japanese exclusively for one year. They gain proficiency in the language and familiarity with the culture. Students who are interested in the Far East should be aware of the opportunities to pursue rapid and thorough beginning studies on campus with the objective of studying abroad in China or Japan. Students interested in this program should contact the Department of Asian Studies, 350 Rockefeller Hall; e-mail: falcon@cornell.edu.

Language House Program

A complement to classroom cultural and linguistic instruction, the Language House Program combines residential and academic opportunities for developing and practicing conversational skills in French, German, Italian, Japanese, Mandarin Chinese, and Spanish. It helps prepare students who plan to study abroad and helps returning students share their cultural experiences while further increasing their language skills. Students interested in this program should contact Clare McMillan, 726 University Ave., 255-6453.

Prelaw Study

Law schools seek students with sound training in the liberal arts and sciences; they neither require nor prefer any particular program of study. Students should therefore study what they love and do well. While doing that, they should also develop their powers of precise, analytical thinking and proficiency in writing and speaking. Students in the College of Arts and Sciences who are applying to law school may consult Lisa Harris in the Office of Arts and Sciences Career Services, 55 Goldwin Smith Hall.

The college offers a concentration in law and society. This program offers a broad scope, complements almost any major, and attracts many students not intending to become lawyers as well as a subset of those intending to.

Premedical Study

The breadth and depth afforded by a liberal arts education are invaluable for students planning medical careers, whether they intend to practice or go into research. Such education has a profound effect on the doctor's understanding of the world and hence usefulness to patients, and it affords the flexibility of mind that is needed for major research undertakings. Medical and dental schools do not prescribe or even prefer a particular major; they do, however, require particular undergraduate courses, and most students are well advised to begin chemistry in their freshman year. Students who are interested in medical careers are urged to visit the Health Careers Office, 203 Barnes Hall.

The advisor for students in the College of Arts and Sciences who are planning careers in medicine is Dean Janice Turner, Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall.

Off-Campus Programs

Many students find it important to their majors or to their overall academic programs to study off campus or abroad for one or two semesters. When it makes academic sense, the college encourages its students to pursue such studies and grants credit toward the degree for work satisfactorily completed. It rarely approves students' participation in more than one off-campus program.

Study Abroad

The College of Arts and Sciences encourages study, both on campus and abroad, that provides a greater understanding of the world's peoples, cultures, economies, and environments, and prepares graduates for the challenges of international citizenship in the 21st century. Study abroad is open to students in any major who meet the college requirements and have a strong academic goal. Well-chosen and well-planned study abroad contributes a global or comparative dimension to your chosen field, enhances critical thinking and communications skills, and provides firsthand immersion in and appreciation of another culture. Focused academic work in the right institution abroad can be excellent preparation for advanced study or honors work in your final semesters at Cornell, and can lead to a career with a global component.

Requirements

- acceptance into a major
- area-studies course work
- fulfillment of the College of Arts and Sciences residence requirement
- GPA of 3.0 or higher and good academic standing
- language study at the required level
- fulfillment of the requirements of the foreign university or program

Cornell Study Abroad students must study alongside degree candidates in their host institutions rather than in self-contained programs that offer courses specially designed for foreigners. The college will approve only those study-abroad proposals that demonstrate realistic and coherent academic goals that are consistent with the philosophy of a liberal arts education.

The college advocates study abroad that enables students to become competent in another language, so that they can engage fully in daily life in another culture, develop social relationships, and complete formal course work in that language. To study abroad in a country where the host language is not English, the student must demonstrate competence in the language as a prerequisite.

For study abroad in Western Europe and Latin America, students must complete at least **two semesters of the appropriate foreign language at the 200 level** at Cornell; additional course work is strongly encouraged and will increase students' chances for acceptance into the most highly competitive programs. Consult this catalog for the required level of course work in specific languages. For study abroad in Asia, Eastern Europe, the Middle East, and parts of Africa, course work entirely in the host language is not always practical, even after several semesters of language preparation at Cornell. Students should still plan to complete as much language preparation as possible within the Cornell curriculum, at least one to two years of study, and may be approved for language-intensive programs (at least half of the permitted 15 credits) with appropriate course work in English. If Cornell does not offer instruction in the language of the proposed host country, the student may be approved for a program that combines intensive language instruction with subject course work in English. All students must continue to formally study the language of the host country while abroad.

For study abroad in English-speaking countries, direct university enrollment is approved and expected. Cornell students will engage in a full course of study, generally in their major field, alongside regular degree candidates in the host country. In general, the college requires that at least 50 percent of the classes the student enrolls in be advanced-level course work in their major field.

Students will need to acquire background knowledge of the country or region where they intend to study. At least one area-studies course or one course in the history, culture, economics, politics, or social relations of the country of destination (3 or more credits) *in addition to language study* should be part of every student's preparation for study abroad. Some especially competitive programs require substantial prior course work in the proposed course of study as a prerequisite to acceptance. Students who intend to enhance their major with study abroad may need advanced course work in that field. As with language study, area-studies preparation beyond the minimum is highly recommended.

All A&S students must be formally accepted into a major before going abroad, and should ideally be accepted into a major before beginning the application process. Most students plan a significant amount of academic work toward the major while abroad. Whether or not students intend to earn major credit, the college requires that time spent abroad will not impede their progress toward the degree. The student's faculty advisor and departmental director of undergraduate studies must review and approve the study-abroad plans before the application is submitted to the college.

Study abroad can earn up to 15 A&S credits per semester of full-time course work as long as the curriculum abroad is consistent

with that of the college. Completion of one trimester of study earns a maximum of 10 credits. Two terms at Oxford or Cambridge may earn up to 20 credits. You must carry a full course load as defined by the host institution, which should be equivalent to at least 15 credits at Cornell, and all courses must be taken for a letter grade. Courses that fall outside the scope of the liberal arts and sciences may only be taken with the **prior approval** of Dean Wasyliv, and will earn non-A&S credits. Some foreign universities offer courses for visiting students that do not carry any academic credit. Students may **not** earn additional credit for enrolling in extra courses during the semester or year abroad.

Credit for study abroad will be awarded only after completion of the semester abroad, and after the college receives your official transcript. To receive credit, students must fill out a **Request for Credit from Study Abroad** form and submit it to the advising office along with a copy of their transcript. All courses taken abroad will appear on the Cornell transcript and grades earned are reported in the system of the host institution. Grades earned through course work abroad do not become part of the Cornell GPA, since grades at other institutions are rarely equivalent to grades at Cornell. **Students must save all written work from all courses until their grades are received and recorded on their Cornell transcript.**

The maximum length of study abroad that can count toward A&S degree requirements is two semesters, which is also the amount of time recommended for true immersion in another culture and language. Approved semesters away from campus include Cornell in Washington, Urban Semester, and SEA Semester as well as all Cornell Abroad destinations. Students who transfer to Cornell must complete a minimum of four semesters of residence on campus in Ithaca and may not study abroad during any of those four semesters. Internal transfers must complete four semesters of residence on campus in the Internal Transfer Division and/or the College of Arts and Sciences. Students interested in the Cornell in Rome Program should contact Dean Wasyliv.

All applicants for study abroad during the academic year must go through the Cornell Abroad office after being approved by the College of Arts and Sciences. For more information, see Dean Patricia Wasyliv, 55 Goldwin Smith Hall. The full A&S study-abroad policy can be found on the Cornell Abroad web site.

Summer Residential Programs in Archaeology

During the summer months students may participate in a Cornell-sponsored archaeological project. In recent years the program has organized archaeological projects in Central America, Greece, Israel, Italy, Turkey, and New York State. Students should contact the Archaeology Program for information about the sites currently available. Students planning on attending field schools organized by other institutions should see Professor Peter Kuniholm, B48 Goldwin Smith Hall.

Marine Science

Shoals Marine Laboratory is a seasonal field station that offers a variety of courses and experiences designed to introduce

undergraduates to the marine sciences. The laboratory is located on Appledore Island, six miles off the Maine/New Hampshire coasts. Students should contact the Shoals Marine Laboratory Office, G14 Stimson Hall, for further information.

Cornell in Washington

The Cornell in Washington program offers students from all colleges in the university an opportunity to earn full academic credit for a semester in Washington, D.C. Students take courses from Cornell faculty members, conduct individual research projects, and work as externs. The Cornell in Washington program offers two study options: (1) studies in public policy, and (2) studies in the American experience. The program also offers unique externship opportunities: students serve as externs in a federal agency, congressional office, or nongovernmental organization and take part in a public policy or humanities seminar. They define and carry out individual research projects under the supervision of Cornell faculty members. Potential externships are arranged through, and approved by, the Cornell in Washington program. For further information, see p. 22 or inquire at M101 McGraw Hall, 255-4090. Study in Washington during a final semester of residence is allowed rarely and only by petition. Students should consult with the dean of seniors, Office of Undergraduate Admissions and Advising, 172 Goldwin Smith Hall.

ACADEMIC INTEGRITY

Academic integrity is the heart of intellectual life—both in learning and in research. All members of the university community simply must support each other's efforts to master new material and discover new knowledge by sharing ideas and resources, by respecting each other's contributions, and by being honest about their own work. Otherwise the university will fail to accomplish its most central and important goals.

Cornell's Code of Academic Integrity and policy about acknowledging the work of others are among the documents new students receive. Students should read them carefully and not assume they understand what integrity and cheating are and are not. Academic integrity implies more here at the university than it usually did in high school. The standards of integrity are those that prevail in professional life. This means that students must acknowledge and cite ideas they adopt from others (not just direct quotations) and help they receive from colleagues or parents. With productive emphases on collaborative learning and writing, students must understand the general standards and policies about academic integrity and be sure they understand the expectations in individual courses as well. When in doubt, ask the instructor. For more information, consult <http://cuinfo.cornell.edu/Academic/AIC.html>.

ADVISING

The following advisors and offices provide academic advising, help with problems, and information on college procedures and regulations.

Faculty Advisors

Each new student is assigned a faculty advisor. Advisors help students plan programs of study and advise them about ways to achieve their academic goals. Advisors may also help students with study or personal problems or may direct them to other offices on campus where help is available. Academic difficulties may frequently be solved or avoided if students and advisors recognize and address problems early.

Advisors and new advisees meet first during orientation week to discuss course selection. New students are encouraged to see their advisors again early in the semester, before it is too late to drop courses, to discuss their academic progress and to become better acquainted. Advisors and advisees meet at least once each semester to discuss courses for the following semester, and more often if advisees wish to discuss academic or personal issues or to petition for an exception to college rules.

Student Advisors

Student advisors pass on lore about the college and life at Cornell and help new students understand requirements and negotiate the university.

Major Advisors

After acceptance into a major, students are assigned a major advisor, a faculty member in the major department, with whom they shape and direct their course of study. The advisor eventually certifies the completion of the major. Students should consult their major advisor about all academic plans, including honors, study abroad, acceleration, and graduate study. The advisor's support is especially important if a student petitions for an exception to the normal procedures or requirements.

Office of Undergraduate Admissions and Advising

This office, located in 55 Goldwin Smith Hall, 255-5004, and 172 Goldwin Smith Hall, 255-4833, is a resource for faculty and student advisors and for individual students and their parents. Advising deans are available to help students define their academic and career goals, to help with special academic options and exceptions to college rules, and to help when problems arise:

David DeVries, associate dean for undergraduate admissions and advising and undergraduate research, 255-3386

Yolanda Clarke, juniors, seniors, internal transfers, and minority students, 255-4833

Juliette Corazón, minority students and liaison to Latino Studies Program, 255-4833

Maria Davidis, juniors, seniors, Tanner Dean's Scholars, Cornell Presidential Research Scholars, Mellon Mays Fellows, and postgraduate fellowships, 255-4833

James Finlay, first- and second-year students, Independent Major Program, Tanner Dean's Scholars, Cornell Presidential Research Scholars Fellowships, undergraduate research, and peer advisors, 255-5004

Ken Gabard, first- and second-year students and College Scholar Program, 255-5004

Lisa M. Harris, career services and pre-law advising, 255-6926

Ray Kim, first- and second-year students, student ambassadors, 255-4833

Irene Komor, career counseling, 254-5295

Clare McMillan, Language House Program, 255-6543

Diane J. Miller, career services, 255-6924

Sally O'Hanlon, registrar, 255-5004

Janice Turner, minority students and pre-med advising, 255-9497

Catherine Wagner, juniors, seniors, and dual-degree students, 255-4833

Peggy Walbridge, juniors, seniors, transfer students, and students with disabilities, 255-4833

Patricia Wasyliw, first- and second-year students, academic integrity, study abroad, 255-5004

Committee on Academic Records

The college faculty's standing Committee on Academic Records has two main tasks: (1) to decide on students' petitions for exceptions to college requirements or rules and (2) to review the records of students who fail to maintain good academic standing and to take appropriate action. It accomplishes both those tasks without formulae and with attention to each individual situation. Its overriding goal is to help students achieve the best undergraduate education possible.

Petitions

The college faculty takes graduation requirements seriously, and the faculty's Committee on Academic Records virtually never waives a requirement outright. However, some students, with the support of their advisors, propose structuring their educations or fulfilling the spirit of college requirements in ways other than the specified norms. The Committee on Academic Records decides on such requests. Students who find that their undergraduate education would be better realized by satisfying requirements or proceeding in a way that requires an exception to normal rules should meet with an advising dean in the Office of Undergraduate Admissions and Advising. The deans are expert in the college's expectations and procedures and can help the student formulate a petition, if appropriate. The committee decides petitions on the basis of their educational merit.

Actions

The College of Arts and Sciences has no minimum grade requirement for graduation beyond the guideline that at least 100 Cornell credits of the 120 total required for graduation be passed with grades of C (not C-) or above. Consequently, only through actions of the Committee on Academic Records, described below under "Academic Standing," does the college maintain the quality of the degree and attend to individual situations when things academic are not going well.

REGISTRATION AND COURSE SCHEDULING

Enrollment in Courses in the College of Arts and Sciences

New Students

During orientation week, new students attend briefings and other information sessions, meet with faculty advisors, and sign into courses. The college reserves spaces in courses for its incoming students.

Continuing Students

Continuing students select and schedule up to five courses of 3 or more credits and as many 1- and 2-credit courses as they would like during the semester before the one in which the courses will be taken. Students who do not "pre-enroll" during the designated period must wait until the beginning of the semester and may have difficulty securing places in the courses they most want. Before enrolling in courses, students plan their programs and discuss long-range goals with their faculty advisors. In addition, all students are welcome to discuss programs and plans with an advising dean in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall.

At the beginning of each semester, students find their schedules on "Just the Facts." Periodically during the semester, they should confirm the accuracy of their records.

Limits on Numbers of Courses and Credits

To meet the 34-course requirement, students must normally take four courses during each of six semesters and five courses during each of two semesters. To meet the 120-credit requirement, students must average 15 credits per semester. (Note: AP credit and/or summer credits may reduce the average numbers of courses and credits required each semester.)

Minimum number of credits per semester

To maintain good academic standing as a full-time student, students must complete at least 12 degree credits per semester; if for compelling personal or academic reasons students need to carry fewer than 12 credits, they should consult their faculty advisor and an advising dean. Permission is by petition only.

Maximum number of credits per semester

First-semester freshmen must petition to enroll in more than 18 credits; other students may enroll in up to 22 credits if their previous semester's average was 3.0 or higher and they are in good academic standing. No more than 22 credits may be taken in a regular semester without permission of the college faculty's Committee on Academic Records. Students who fail to receive approval for excess credits from the committee may count only 18 or 22 credits, depending on their previous semester's average, toward the degree for that semester.

Attendance

Attendance in classes is expected. Absences are a matter between students and their instructors. If a student cannot attend classes because of illness or family crisis, the Office of Undergraduate Admissions and Advising will notify instructors at the request of the

student or the family. Nonetheless, the student must arrange to make up examinations or other work with each instructor. A student who will be absent because of religious holidays or athletic competitions must discuss arrangements for making up work with his or her instructors well in advance of the absence. A student who must miss an examination must also consult with the professor in advance. Alternative arrangements are at the discretion of the instructor.

Student athletes should discuss scheduled absences with their instructors at the beginning of the semester. Courses vary in their tolerance of absences. Instructors are not obligated to approve absences for purposes of participating in extracurricular activities, although most will be as flexible as is sensible for a student's academic program.

Adding and Dropping Courses

After course enrollment (also known as pre-enrollment), students may not adjust their schedules until the new semester begins. During the first three weeks of the semester, students may change courses without petitioning. (Note: the add period for first-year writing seminars is only two weeks.)

After the third week of classes, students must petition to add courses and may add them only for a letter grade. They may drop courses through the seventh week of the semester if no issue of academic integrity is at stake. Between the seventh and 12th weeks students may petition to withdraw from courses, if (1) the instructor approves; (2) the advisor approves; (3) an advising dean approves; (4) the drop does not result in fewer than 12 credits; and (5) no issue of academic integrity is at stake. Students must meet with an advising dean to obtain petition forms.

Courses officially dropped after the seventh week will be noted on the transcript by a "W" where the grade would normally appear. **This is a matter of record and cannot be petitioned. Petitions to withdraw from courses may not be submitted after the end of the 12th week in the semester.** Deadlines for short courses will be adjusted according to the length of the courses.

The effective date of all course changes will be the day the student submits all completed paperwork to the Office of Undergraduate Admissions and Advising.

Leaves of absence (LOAs)

Taking time off from college to gain experience or funds, or to find direction, is sometimes useful. In general, students arrange in advance for leaves to take effect the following semester. Students in good academic standing may take a personal leave of absence up to the beginning of the semester (defined as the first day of classes). Students not in good academic standing may pursue a conditional leave of absence from the college up to the first day of classes. If medical issues are involved, students must consult Gannett: Cornell University Health Services about the advisability of a medical leave of absence.

Any student who wishes to take a leave of absence must consult with an advising dean in the Office of Undergraduate Admissions and Advising, 55 or 172 Goldwin Smith Hall.

Students sometimes find it necessary to take a leave of absence at some point during the semester. In addition to the serious

financial consequence of taking leaves after the semester has begun (see the Proration Schedule for Withdrawals and Leaves of Absence in the General Information section of this catalog), all leaves taken during the semester are granted at the discretion of the college. Students should discuss their need for a LOA with an advising dean.

Leaves of Absence are of four types:

1. *Personal leaves* impose no conditions concerning reentering the college except for the five-year limit (see "Return from Leave," below). Readmission is automatic upon written request made by August 1 for a fall semester, or January 1 for a spring semester.
2. *Conditional leaves* are granted by the college for students who wish to take a leave but are not in good academic standing, or for students who wish to take a leave during the current semester. In consultation with the student, an advising dean and the Committee on Academic Records set the conditions for the student's return. Students may not return from conditional leaves for at least two semesters and/or until specific and individual conditions, such as completing unfinished work, have been met. Students may be granted conditional leaves after the 12th week of a semester only under extraordinary circumstances and with the approval of the faculty's Committee on Academic Records.
3. *Medical leaves* are granted by the college only upon the recommendation of Gannett, and are usually issued for at least six months. The college may attach additional conditions appropriate to the individual situation. The student's academic standing is also subject to review at the time of the leave and on return. Students must then receive clearance from both Gannett and the college to be readmitted to study. Students wishing to return from a medical leave should contact Gannett several months in advance to initiate the return process, and only then contact the college.
4. *Required leaves.* The Committee on Academic Records may require a leave of absence if a student is not making satisfactory progress toward the degree. See "Academic Actions."

Students on conditional or required leaves of absence (LOA) may not attend any classes at Cornell through the School of Continuing Education and Summer Sessions. Students on a medical LOA may not register for classes at Cornell unless they obtain the permission of the college and a recommendation from Gannett. Courses taken without college permission will not count toward degree requirements.

Return from Leave

Students wishing to return from leave must contact the college and, where appropriate, provide documentation that all conditions for readmission have been satisfied. All requests for readmission must be received by the college by August 1 for the fall semester and January 1 for the spring semester. In the case of conditional and/or medical leaves, substantial advance consultation with both the college and Gannett: Cornell University Health

Services is necessary. On readmission, the student's graduation date will be recalculated. Five years is the maximum length of time a student may be on leave before being withdrawn from the college.

Transferring Credits Earned While on Leave

Students who take courses elsewhere in the United States while on leave may petition to have credits transferred. Petitions are available in 55 and 172 Goldwin Smith Hall and at www.arts.cornell.edu. Approval depends on acceptable grades and the judgment of the relevant departments about the quality of the courses. If approved, these credits may be applied toward the 120 credits and 34 courses needed for graduation, but not toward the 100 credits required in the college. They may be applied to elective requirements or to the major, as allowed by the department, but not to any of the breadth or distribution requirements. **Credits earned during a leave do not count toward the eight semesters of residence and may not be used to reduce the terms of residence below the required eight. See "Residence."**

Study Abroad and International Students on Leave of Absence

Study abroad undertaken during a leave of absence will not receive academic credit. International students on leave of absence from the College of Arts and Sciences may enroll in courses at a college or university in their home country **only**, as such enrollment is not defined as study abroad. They may petition for transfer of credit upon return to Cornell. If approved, the credit will count as described in the previous paragraph.

Withdrawals

A withdrawal is a permanent severance from the university and from candidacy for the degree. Students planning to withdraw should consult an advising dean. Students not requesting a leave and failing to register for a semester will be withdrawn from the college. The college faculty's Committee on Academic Records may require a student to withdraw because of a highly unsatisfactory academic record.

Transferring within Cornell (Internal Transfer)

Internal transfer from one college or school at Cornell into another is attractive for many students whose intellectual interests change (or become more focused). Students who want to transfer should discuss their eligibility with a counselor in the new school or college.

In some cases, students who want to transfer into the College of Arts and Sciences may transfer directly. In other cases, they may be referred to the Internal Transfer Division. During the semester immediately preceding transfer into the College of Arts and Sciences, students should complete at least 12 credits of courses in the College of Arts and Sciences with a 3.0 average and with no grades of *Incomplete*, S-U grades (unless only S-U grades are offered for that particular course), or grade below C (C- is below C). Satisfying this minimum requirement does not, however, guarantee admission. Admission to the college is based on consideration of the student's entire record at Cornell and the high school record, not just the work of one semester. It is also based on ability to complete the B.A. degree within a reasonable time. Internal

transfers are required to spend four semesters in Arts and Sciences and thus should initiate the transfer process no later than the second semester of sophomore year. They also must complete at least 100 credits at Cornell with grades of C (not C-) or above. Interested students should see Dean Yolanda Clarke, 172 Goldwin Smith Hall.

ACADEMIC STANDING

Students are in good academic standing for the semester if they successfully complete at least 12 degree credits by the end of the semester and earn no more than one D and no F or U grades. If a student completes only three courses, all grades must be above D. In addition, students are expected to make satisfactory progress toward satisfying requirements for the degree and to earn grades of C (not C-) or better in at least 100 of the 120 credits for the degree. Courses listed under "courses that do not count toward the degree" do not count toward good academic standing in a semester.

Academic Actions

Students who are not in good academic standing will be considered for academic action by the college faculty's Committee on Academic Records or by one of the advising deans of the college. Students are urged to explain their poor academic performance and submit corroborating documentation. Students may appeal a decision or action of the committee if they have new relevant information and documentation. They must consult an advising dean about appealing.

Warning

Any student who fails to maintain good academic standing will, at a minimum, be warned. A warning is posted on a student's college record but is not reported to the university registrar and does not appear on official transcripts.

Required leave of absence

A student in serious academic difficulty may be required by the faculty Committee on Academic Records to take a leave of absence, normally for a full year. Usually, but not always or necessarily, the Committee on Academic Records warns students before suspending them. Before being allowed to return and reregister in the college, students must document what they did on leave and how they resolved their problems, and they must submit a plan for completing the degree. In some cases students will be required to furnish evidence that they are ready to return or satisfy other conditions before being allowed to reregister in the college. Students who request to return in less than a year must present to the committee extraordinarily convincing evidence of their readiness to return. "Required leave" is posted on the student's official transcript.

Required withdrawal

The faculty Committee on Academic Records may dismiss a student from the college because of a highly unsatisfactory record for one semester or for failure to make satisfactory overall progress in grades, credits, or degree requirements. This action expels the student permanently from the college.

"Required withdrawal" is posted on the student's official transcript.

Forgery or Fraud on Forms

Forging signatures or credentials on college forms is an academic offense and constitutes academic fraud. In all cases of forgery on academic forms, the effect of the forged documents shall be negated; such incidents will be recorded in the Academic Integrity Hearing Board's confidential file for forgeries. If the student forges more than once, or if the forgery would advance the student's academic standing unfairly or fraudulently, or if for any reason the situation requires some response in addition to the uniform penalty, the Academic Integrity Hearing Board might recommend further action, such as a notation on the student's transcript, suspension, or dismissal.

GRADES

Letter Grades

See "Grading Guidelines," p. 15.

S-U Grades

The S-U (satisfactory-unsatisfactory) option allows students to explore unfamiliar subjects or take advanced courses in subjects relatively new to them without being under pressure to compete with better-prepared students for high grades. Students are expected to devote full effort and commitment to a course and complete all work in a course they take for an S-U grade. The S-U option is contingent upon the instructor's willingness to assign such grades. **Students must select their grading option and obtain the instructor's approval for the S-U option during the first three weeks of the semester.** No exceptions to this deadline are permitted, and consequently students adding courses after the third week of the semester must add them for a letter grade. A grade of S is equivalent to a grade of C- or higher; a grade of U, which is equivalent to any grade below C-, is a *failing* grade equal to an F. S means the student receives the credit specified for the course. U means no credit is given. A few courses in the college are graded exclusively S-U; in that case, the final grade appears on the transcript as SX or UX.

Prerequisite courses for graduate school and courses counting toward the major should not be taken for an S-U grade, unless the department grants permission. Students may elect the S-U option in courses used to satisfy distribution and elective requirements, provided that such courses do not also count toward major requirements or serve as prerequisites for admission to the major. First-year writing seminars and most language courses disallow the S-U option. In any case, students are advised to use the S-U option sparingly, if they intend to apply to graduate school or for transfer to another college. There is no limit on the number of courses each semester for which students may elect the S-U grade, but within the 120 credits required for the degree, a minimum of 80 credits must be in courses for which a letter grade was received.

Note of Incomplete

An incomplete (INC) signifies that a course was not completed before the end of the semester for reasons beyond the student's control and acceptable to the instructor. Students must have substantial (normally at least 50 percent) equity in the course, be able to complete the remaining work, and have a passing grade for the completed portion. When a grade of incomplete is reported, the instructor submits a form stating what work must be completed, when it must be completed, and the grade (or permanent—"frozen"—incomplete) earned if the work is not completed by that date. When a final grade is determined, it is recorded on the official transcript with an asterisk and a footnote explaining that this grade was formerly an incomplete.

Students must resolve (make up or "freeze") any incompletes with their instructors before graduation.

Note of R (Yearlong Courses)

R is recorded for satisfactory progress at the end of the first semester of a two-semester course. Students enroll in such courses both semesters, each time for the full number of credits for the whole course. The grade recorded at the end of the second semester evaluates the student's performance in the course for the entire year.

Grade Reports

Grade reports are available online on Just the Facts; they are not mailed to students. Students should periodically check their courses and grades to be sure that they are recorded correctly.

Class Rank

The college does not compute class rank.

Dean's List

Inclusion on the Dean's List is an academic honor bestowed by the dean of the college semester by semester. Based on grades, the criteria include about the top 30 percent of students and vary with the number of credits the student completes. The criteria are subject to slight changes from semester to semester and are available at www.arts.cornell.edu/stu-adv/deanslist.asp and in the Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall.

GRADUATION

The Degree

The College of Arts and Sciences grants only one degree (no matter the student's major): the A.B. (or B.A.). A.B. is the abbreviation of the Latin name for the degree, "artium baccalarius," or translated into English, B.A., "Bachelor of Arts."

Application to Graduate

In the first semester of their senior year, students complete an application to graduate. The application allows the college to check each student's plan for fulfilling college requirements. This process is intended to help seniors identify problems early enough in the final year to make any necessary changes in

course selection to satisfy those requirements. *Nonetheless, meeting graduation requirements is the student's responsibility;* problems that are discovered, even late in the final semester, must be resolved by the student before the degree can be granted.

Degree Dates

There are three degree dates in the year: May, August, and January. Students who plan to graduate in August may attend graduation ceremonies in the preceding May. Students graduating in January are invited to a special recognition ceremony in December; they may also attend graduation ceremonies the following May.

Honors

Bachelor of Arts with Honors

Almost all departments offer honors programs for students who have demonstrated exceptional accomplishment in the major and succeeded in research. The honors programs are described by individual departments. The degree of Bachelor of Arts *cum laude*, *magna cum laude*, or *summa cum laude* will be conferred upon a student who, in addition to having completed the requirements for the degree of Bachelor of Arts, has been recommended for a level of honors by the major department, the Independent Major Program, or the College Scholar Program. Concentrations do not offer honors programs.

Bachelor of Arts with Distinction

The degree of Bachelor of Arts with distinction in all subjects will be conferred on students who have completed the requirements for the degree of Bachelor of Arts, if they have met the following requirements by the end of their final semester:

1. completed at least 60 credits while registered in regular sessions at Cornell;
2. ranked in the upper 30 percent of their class at the end of the seventh semester, or next-to-last semester for transfers and accelerants;
3. received a grade below C- in no more than one course;
4. received no failing grade;
5. have no frozen *Incompletes* on their records; and
6. maintained good academic standing, including completing a full schedule of at least 12 credits, in each of their last four semesters.

CALENDAR SUPPLEMENT

All of the dates in the university calendar at the front of this volume apply to all Cornell students. Listed below are some additional dates that are of importance for students in the College of Arts and Sciences.

	<i>Fall 2006</i>	<i>Spring 2007</i>
Last day for adding courses without petition	Sept. 15	Feb. 9
Last day for adding a first-year writing seminar	Sept. 8	Feb. 2
Last day for changing grade option to S-U or letter	Sept. 15	Feb. 9
First deadline for submitting independent major requests. Go to 55 Goldwin Smith Hall for further information.	Sept. 25	Feb. 26
Last day for dropping courses without petition	Oct. 13	March 9
Last day to petition to withdraw from a course	Nov. 17	April 20
Second deadline for submitting independent major requests. Go to the Office of Undergraduate Admissions and Advising, 55 Goldwin Smith Hall, for further information.	Nov. 27	April 2
Deadline for requesting internal transfer to the College of Arts and Sciences for the following semester.	Dec. 2	May 4
Deadline for applying to the College Scholar Program.		May 3
Deadline for applying Office, to study abroad	See Cornell Abroad 474 Uris Hall	
Course enrollment (preregistration) for the following semester.	TBA	TBA

Departments, Programs and Courses

AFRIKAANS

See "Department of German Studies (Dutch)."

AFRICANA STUDIES AND RESEARCH CENTER

S. Hassan, Director (254-1592); N. Assié-Lumumba, A. Bekerie, L. Edmondson, R. Harris, A. Mazrui, A. Nanji, J. Turner. Offices: 310 Triphammer Road, 255-4625 or 255-4291.

The Africana Studies and Research Center is concerned with the examination of the history, culture, intellectual development, and social organization of Black people and cultures in the Americas, Africa, and the

Caribbean. Its program is structured from an interdisciplinary and comparative perspective and presents a variety of subjects in focal areas of history, literature, social sciences, and African languages. African languages such as Swahili are consistently offered fall and spring semesters and also taught during summer/winter session.

The center offers a unique and specialized program of study that leads to an undergraduate degree through the College of Arts and Sciences and a graduate degree, the Master of Professional Studies (African and African-American), through the university's Graduate School.

A student may major in Africana Studies; however, another attractive alternative is the center's minor concentration program. This program enables the student to complete a major in any of the other disciplines represented in the college while at the same time fulfilling requirements for a minor in Africana Studies. This requires only a few more credits than is usually the case when one completes a single major course of study. Courses offered by the center are open to both majors and nonmajors and may be used to meet a number of college distribution requirements, including historical/temporal breadth (#) and geographical breadth (@) requirements, such as first-year writing seminars, language (Swahili), expressive arts, humanities, social sciences, and history.

The center also brings distinguished visitors to the campus, sponsors a colloquium series, and houses its own library.

The Africana Major

The undergraduate major offers interdisciplinary study of the fundamental dimensions of the African-American, African, and Caribbean experiences. Because of the comprehensive nature of the program, it is to students' advantage to declare themselves Africana majors as early as possible. The following are prerequisites for admission to the major.

Students should submit:

1. a statement of why they want to be an Africana Studies major;
2. a tentative outline of the area of study they are considering (African, African-American, or Caribbean) for the major; and
3. a full transcript of courses taken and grades received.

The center's director of undergraduate studies, A. Bekerie, will review the applications and notify students within two weeks of the status of their request.

After acceptance as a major in the Africana Center, a student must maintain a C+ cumulative average in the center's courses while completing the major program. The Africana major must complete 36 credits in courses offered by the center, to include the following four core courses: AS&RC 205, 231, 290, and 422. Beyond the core courses, the student must take 8 credits of center courses numbered 200 or above and 15 credits numbered 300 or above. The program of an undergraduate major may have a specifically African American or African focus.

Joint Majors (Minor Concentration)

The center encourages joint majors (minor concentration) in the College of Arts and Sciences and in other colleges. Joint majors are individualized programs that must be worked out between the departments concerned. The center's director of undergraduate studies, A. Bekerie, will assist students in the design and coordination of joint major programs. However, in any joint major program, the center will require that at least 16 credits be taken in Africana Studies courses, including AS&RC 290.

Double Majors

In the case of double majors (as distinct from joint majors) students undertake to carry the full load of stipulated requirements for a major in each of the two departments they have selected.

Certificate in African Studies

In conjunction with the Institute for African Development, the Africana Studies and Research Center administers an undergraduate Certificate in African Studies program. The certificate is offered as a minor concentration available to students in all of the undergraduate colleges at Cornell. Many of the courses in the program might be used to fulfill other course distribution requirements. By pursuing this certificate, students acquire an interdisciplinary understanding of Africa. After developing a foundation of knowledge on the culture, society, and development of Africa in the core course, AS&RC 191 Africa: The Continent and Its People, students pursue 15 credit hours in a humanities or development studies track or a combination of the two, including an additional core course, either AS&RC 205, African Civilizations and Cultures or CRP 477/677 Issues in African Development. The requirements for the certificate are a minimum of 18 credit hours, including the core courses. Students interested in the certificate program must contact A. Bekerie (the center's director of undergraduate studies), who will register them in the program and assign them a faculty advisor from their own college. The faculty advisor will be responsible for determining completion of the certificate requirements.

Honors

The honors program offers students the opportunity to complete a library research thesis, a field project in conjunction with a report on the field experience, or a project or experiment designed by the student. The requirements for admission to the honors program for all students—regular majors, joint majors, and double majors—are a B- cumulative average in all courses and a B+ cumulative average in the center's courses. Each student accepted into the honors program will have an honors faculty committee consisting of the student's advisor and one additional faculty member, which is responsible for final evaluation of the student's work. The honors committee must approve the thesis or project before May 1 of the student's junior year. The completed thesis or project should be filed with the student's faculty committee by May 10 of the senior year.

Language Requirement

Courses in Swahili, Arabic, and Yoruba may be used to satisfy the College of Arts and

Sciences language requirement. In Swahili, successful completion of AS&RC 202 satisfies Option 1. For Yoruba, successful completion of AS&RC 203 satisfies Option 1. For Arabic, AS&RC 212 and AS&RC 312 satisfy Option 1. AS&RC majors are not required to take an African language, but the center recommends the study of an African language to complete the language requirement.

AS&RC 111/112(1104/1105) Elementary Arabic I and II (also NES 111/112[1201/1202])

Fall/spring. 4 credits. M. Younes.
For description, see NES 111/112.

AS&RC 113/212(1106/2101) Intermediate Arabic I and II (also NES 113/210[1203/2200])

Fall/spring. 4 credits. AS&RC 212 @ satisfies Option 1. M. Younes.
For description, see NES 113/210.

AS&RC 121/122(1108/1109) Introduction to Yoruba I and II

Fall/spring. 4 credits. A. Ademoyo.
A two-semester beginner's course in Yoruba Language and Culture. Organized to offer Yoruba language skills and proficiency in speaking, reading, listening, writing, and translation. Focus is placed on familiar informal and formal contexts, e.g. home, school, work, family, social situations, politics, etc. Course uses Yoruba oral literature, proverbs, rhetoric, songs, popular videos, and theatre, as learning tools for class comprehension. First semester focuses on conversation, speaking and listening. Second semester focuses on writing, translation and grammatical formation. Through the language course students gain basic background for the study of an African culture, arts, and history both in the continent and in the diaspora. Yoruba language is widely spoken along the west coast of Africa and in some African communities in diaspora. Yoruba video culture, theatre, music, and arts have strong influence along the west coast and in the diaspora.

AS&RC 123(1110) Intermediate Yoruba I

Fall. 4 credits. A. Ademoyo.
The intermediate course extends the development of the main language skills, reading, writing, listening, and conversation. The course deepens the development of correct native pronunciation, the accuracy of grammatical and syntactic structures; and the idiomatic nuances of the language. Students who take the course are able to (i) prepare, illustrate and present Yoruba texts such as poems, folktales, advertisements, compositions, letters, (ii) read Yoruba literature of average complexity, (iii) interpret Yoruba visual texts of average difficulty, (iv) comprehend Yoruba oral literature and philosophy—within the context of African oral literature and philosophy—of basic complexity. Through the Yoruba language students appreciate African oral literature and philosophy. The primary textual media are Yoruba short stories, poems, short plays, films, songs, and newspapers.

AS&RC 124/125(1112/1113) Elementary Twi/Akan I and II

Fall/spring. 4 credits. Faculty.
A two-semester beginner's course in Twi/Akan language and culture. Twi/Akan is a major West African language spoken in Ghana, Cote-d'Ivoire, and parts of Togo and Benin. This is an elementary course which

introduces students to the basic structures of the language which are applied to rapidly develop the primary speaking, reading, and writing skills of the Twi/Akan. The class will also explore traditional and contemporary cultures of Twi/Akan people.

AS&RC 131(1100) Swahili

Fall. 4 credits. Language lab times TBA.
A. Nanji.
Beginner's Swahili. Part 1—Grammar for speaking, reading, and writing. Requires no knowledge of language. Swahili is spoken in the East and Central parts of Africa.

AS&RC 132(1101) Swahili

Spring. 4 credits. Prerequisite: AS&RC 131.
A. Nanji.
Continued study of the basic grammatical formation of the language and the introduction of reading material ranging from songs to short stories. A great many drills are used in this course to help develop the student's comprehension of the language. Swahili tapes are used during all of these sequences.

AS&RC 133(1102) Swahili

Fall. 4 credits. Prerequisites: AS&RC 131 and 132. A. Nanji.
Advanced study in reading and composition.

AS&RC 134(1103) Swahili

Spring. 4 credits. Prerequisite: AS&RC 133.
A. Nanji.
Places more emphasis on the development of reading ability and the acquisition of writing skills. Students are expected to read and comprehend selected Swahili stories and write compositions on chosen topics. Ample consideration is given to oral practice in the classroom.

AS&RC 140/141(1114/1115) Elementary Zulu I and II

Fall/spring. 4 credits. Faculty.
Zulu, known by native speakers as IsiZulu, is one of the 11 official languages of South Africa. Out of the four Nguni languages (Zulu, Xhosa, Swati, and Ndebele), Zulu is the most widely spoken. The advantage of learning IsiZulu is that it forms the basis for understanding the other Nguni languages. This is a two-semester elementary course which introduces students to the basic structures of the language which are applied to rapidly develop the primary speaking, reading, and writing skills of the Zulus. The class will also explore traditional and contemporary cultures of the Zulu people.

AS&RC 171(1600) Black Families and the Socialization of Black Children (SBA)

Fall. 3 credits. L. Wilton.
Examination of the evolution of the Black family from its roots in Africa, the evolution of family forms, the impact of social policy, and a consideration of the literature stressing family and child well-being. Among the major topics considered are male/female relationships, childbearing and parental roles, the extended family, and economic and health issues. The component of the course focusing on youth primarily covers child and adolescent development.

AS&RC 191(1300) Africa: The Continent and Its People @ (HA)

Fall. 3 credits. L. Edmondson.
Introductory interdisciplinary course focusing on Africa's geographical, ecological, and demographic characteristics; indigenous institutions and values; the triple cultural heritage of Africanity, Islam, and Western

civilization; main historical developments and transitions; and contemporary political, economic, social, and cultural change. Africa's ties with the United States (from trans-Atlantic slavery to the present), its impact on the emerging world order, and its contribution to world civilization are also explored.

AS&RC 202(2100) Swahili Literature @ (LA)

Fall. 4 credits. Satisfies Option 1.
Prerequisite: AS&RC 134. A. Nanji.
Students gain mastery over spoken Swahili and are introduced to the predominant Swahili literary forms.

AS&RC 203(1111) Intermediate Yoruba II @

Spring. 4 credits. Satisfies Option 1.
A. Ademoyo.
The Intermediate Yoruba II is a follow-up to Intermediate Yoruba I. It is a fourth semester Yoruba Language course. The course assists students to acquire advanced level proficiency in reading, speaking, writing and listening in Yoruba language. Students are introduced to grammatical and syntactic structures in the language that will assist them in describing, presenting, and narrating information in the basic tenses. At the end of the course, students will be able to listen to, process and understand programs produced for native speakers in media such as television, radio, films etc. They will be able to read and understand short stories, novels, plays written for native speakers of the language.

AS&RC 205(2300) African Cultures and Civilizations # @ (CA)

Spring, summer. 3 credits. A. Bekerie.
Concerned with the peoples of Africa and the development of African cultures and civilizations from the earliest times to the present day. Focuses on the near modern civilizations of Africa south of the Sahara, and the ancient civilizations of Egypt and the Nile Valley, together with their contributions to the development of the major world civilizations. Also deals with the sociopolitical organization of African societies, their kinship systems, cross-cutting ties, rites of passage, gender relations, and arts (including music, dance, folklore, architecture, sculpture, painting, and body decoration).

AS&RC 212(2101) Intermediate Arabic II (also NES 210[2200]) @

Spring. 4 credits. M. Younes.
For description, see NES 210.

AS&RC 231(2601) Afro-American Social and Political Thought (SBA)

Spring. 3 credits. J. Turner.
This is an introductory course that reviews and analyzes the major theoretical and ideological formulations developed and espoused by African-Americans in the struggle for liberation. We focus specifically on the political philosophy and historical significance of Malcolm X, and the work and movement of Marcus Garvey, as the prime movers of nationalism and pan-Africanism among Black people in this century. Such themes as slave resistance, nationalism, Pan-Africanism, emigration, anti-imperialism, socialism and internal colonialism, and the political and social views of Black women are discussed. Black political thought is viewed in its development as responses to concrete conditions of oppression and expression.

AS&RC 241(2303) Riot and Revolution in 19C Africa (also HIST 241[2410]) @ # (HA)

Fall. 4 credits. S. Greene.
For description, see HIST 241.

AS&RC 256(2303) The Past and Present of Pre-colonial Africa (also HIST 255[2550])

Spring. 4 credits. S. Greene.
For description, see HIST 255.

AS&RC 277(2504) Literatures of the Black Atlantic (also ENGL 277[2770])

Spring. 4 credits. D. Woubshet.
For description, see ENGL 277.

AS&RC 290(2602) The Sociology of the African-American Experience (SBA)

Fall. 3 credits. J. Turner.
This is an introductory course to the field of Africana Studies. It assumes a historical/sociological approach to the examination of the African-American experience. The course surveys the African beginnings of humankind and the classical role of Black people in world civilization and the making of early culture. The course treats issues in the humanities, social sciences, and history. The course is required for all undergraduate students majoring at the Africana Center.

AS&RC 308/312(3100/3101) Advanced Intermediate Arabic I and II @ (also NES 311/312[3201/3202])

Fall/spring. 4 credits. *AS&RC 308 satisfies Option 1.* M. Younes.
For description, see NES 311/312.

AS&RC 310(3501) Introduction to African Art (also ART H 378[3510]) @ (LA)

Fall. 3 credits. S. Hassan.
Survey of the visual art and material cultural traditions of sub-Saharan Africa. Aims at investigating the different forms of visual artistic traditions in relation to their historical and sociocultural context. Explores the symbolism and complexity of traditional African art through the analysis of myth, ritual, and cosmology. Uses in-depth analysis of particular African societies to examine the relationship of the arts to indigenous concepts of time, space, color, form, and sociopolitical order. Also explores new and contemporary art forms associated with major socioeconomic changes and processes of assimilation and acculturation. These include tourist art, popular art, and elite art.

AS&RC 311(3600) Government and Politics in Africa (also AS&RC 504[6201]) SBA

Spring. 3 credits. A. Mazrui.
This course deals with power and political participation in Africa. Topics include: the colonial background and its political consequences; the pre-colonial continuities in the post-colonial politics; ethnicity and allegiance in the African polity; and the monarchical tendency in African political culture. Discussion covers a spectrum of topics from the warrior tradition to the military coup in the post-colonial era; from the elder tradition to presidential gerontocracy; from the sage tradition to intellectual meritocracy. Other major topics include class versus ethnicity in African politics; the one-party versus the multiparty state; socio-cultural versus socio-economic ideologies; the gender question in African politics; the soldier and the state; and the African political experience in a global context.

AS&RC 312(3101) Advanced Intermediate Arabic II (also NES 312[3202])

Spring. 4 credits. D. Bakhri.
For description, see NES 312.

AS&RC 365(3302) West Africa and West: 1450-1850 (also HIST 365[3650])

Fall. 4 credits. S. Greene.
For description, see HIST 365.

AS&RC 375(1603) Black Child and Adolescent Development (also HD 375[3750]) (SBA)

Spring. 3 credits. L. Wilton.
This course will survey Black child and adolescent development and focus on conceptual and theoretical aspects of psychological development within an African Diasporic context. In particular, we explore how Black culture and Black communities have been instrumental in shaping the lives of Black youth. Within this context, we will focus on how social identity (i.e. race, ethnicity, gender, social class, sexuality) and socio-cultural factors relate to Black child and adolescent development. Specifically, we will examine the complexities of color in Black children's experience; socio-historical/-political contexts of Black child/adolescent development; parenting, racial socialization, and education for Black children and adolescents; racial attitudes and socialization in children; Impact of Hierarchical Social Structures on Youth of Color; Black adolescents and Black racial identity development; and contemporary models of psychological development for Black youth.

AS&RC 384(3204) Anthropology and the African Diaspora (also AM ST 384[3204], ANTHR 386)

Fall. 4 credits. W. Battle-Baptiste.
The primary objective of this course is to introduce students to the African Diaspora through the works of anthropologists of African descent. In the early twentieth-century anthropology became a tool for Black intellectuals to celebrate African heritage, shape an ethnic identity, and fight for racial equality in the United States. The work of many of these trained anthropologists have blurred the boundaries between social science and art, folklore and fiction, ethnography and autobiography, and social analysis and journalism. This course will highlight the classic works of pioneers such as, W. E. B. DuBois, Zora Neale Hurston, Katherine Dunham, St. Claire Drake, and Ellen Irene Diggs as anthropologists and emphasize their unique perspectives of particular points in the African Diaspora, such as Northern urban centers of the U.S., Haiti, and Cuba. We will then explore and reflect on the impact these pioneers have on practitioners of African Diaspora anthropology today.

AS&RC 385(3204) Arkeo and the African Diaspora

Spring. 3 credits. W. Battle-Baptiste.
This course is a comparative survey of the institution of slavery in the Americas from the sixteenth through the nineteenth-century. We will examine major themes, ideas, and discussions current in African Diaspora archaeology. An interdisciplinary perspective will be employed through readings, exercises, lectures and discussions pertaining to the archaeology, ethnohistory and history of slavery at different points in the African Diaspora. These kinds of interdisciplinary approaches, complemented with historical

documentation and oral history accounts, are essential for a more thorough interpretation of the African experience in the New World. We will also explore the recent trends in African Diaspora Archaeology and current dialogues between archaeologists working in West Africa, the Caribbean, South America and the United States. There will be a comparative analysis of plantation economics and issues related to society, culture, resistance, and identity formation.

AS&RC 404(4200) Afrocentricity: Paradigm and Critical Readings @ (CA)

Fall. 4 credits. A. Bekerie.
What is Afrocentricity? It is a theoretical framework designed to study and interpret the histories and cultures of peoples of Africa and African descent by locating them at the center of their experiences. In other words, it is a method of knowing the life experiences of African peoples from the inside out. The course examines—through the writings of Asante, Keto, Clarke, Jean, Myers, Amin, Mazrui, Gates, Appiah, Richards, Schlesinger, and Thiongo—the conception and depth of the paradigm, its relevance in the production and utilization of knowledge, particularly emancipatory knowledge, the history of the paradigm, and the debate it generates among a wide range of thinkers and scholars.

AS&RC 408(4504) Exhibiting Cultures (also AS&RC 608[6508], ART H/AM ST 408[4508], ART H 608[6508])

Fall. 4 credits. C. Finley.
For description, see ART H 408.

AS&RC 410(4300) African American Politics (HA)

Fall. 4 credits. J. Turner.
The central thesis of African-American politics has been its movements for political change and democratic access and human rights. This development since the seventeenth century is a complex political legacy. This course conducts a close study of African-American political practice and theoretical analysis of the American political system. Implications of the political systems for prospects and limitations to participation by Black people are analyzed. Critical historical stages in the process of Black politics are examined. The development of electoral offices in federal and statewide politics in critical industrial centers, as well as rural hamlets, center the course. Presidential politics—the Jesse Jackson campaigns—and new political formations including Black Republicans/conservatives constitute the emphasis on contemporary events. The course reviews the development of the literature in African-American politics.

AS&RC 419 Transnational Method: Then and Now (also S HUM 419)

Fall. 4 credits. M. Seigel.
For description, see S HUM 419.

AS&RC 420(4605) Public Policy and the African-American Urban Community (SBA)

Spring. 4 credits. J. Turner.
The socio-economic conditions of the African-American urban community are the central focus of the course. Community development models are explored in relationship to the social needs of the African-American population. The changing configuration of internal organization of the African-American community nationally is examined.

AS&RC 427 Caribbean Popular Literature (also S HUM 423)

Spring. 4 credits. B. Edmondson.
For description, see S HUM 423.

AS&RC 435(4502) African Cinema (also ART H 478[4578]) @ (LA)

Spring. 4 credits. S. Hassan.
This course offers an overview of African cinema and filmmaking. It surveys historically the evolution of African cinema from its early days to the present. Through screening of selected African films, different trends within African cinema will be explored, such as "Return to the Sources" and the rediscovery of the pre-colonial past; the "Social Realist" narrative and critique of post-independence Africa; reconstructing the story of colonialism from the perspective of the colonized; and the entertainment genre. Techniques, styles, and aesthetics of African cinema will also be discussed. The course offers a unique opportunity of looking at African culture and society, and at issues of social change, gender, class, tradition, and modernization through African eyes.

AS&RC 442(4305) To Be Enslaved (also HIST 442[4421])

Spring. 4 credits. S. Greene.
For description, see HIST 422.

AS&RC 451(4600) Politics and Social Change in the Caribbean @ (SBA)

Fall. 4 credits. L. Edmondson.
Study of the historical, geostrategic, political, economic, and social (including racial and cultural) forces affecting the domestic and international experiences of Caribbean societies. Special attention is given to conflicting definitions and perceptions of the Caribbean; contending theories of Caribbean social structure and models of development; the continuing salience of struggles for change and transformation; prospects of regional integration; and Caribbean challenges to the global system, especially with regard to the region's relations with the United States and the region's position in the Third World in the context of the North-South cleavage.

AS&RC 453(4204) The Archaeology of Slavery (also AM ST 453[4204], ARKEO 453[4253], ANTHR 453[4253]) (CA)

Fall. 4 credits. W. Battle-Baptiste.
Material culture and the built environment not only reflect human behavior, but also help archaeologists to recognize the functional and symbolic dimensions of people experiencing life within specific cultural spaces. This seminar is an exploratory effort to provide interdisciplinary methods for students engaged in the research and analysis of African American life and history. This course will also address the meaning and significance of how material culture enhances the interpretation of black cultural production and African Diaspora theory.

[AS&RC 459(4601) Innovation in Africa and the Diaspora (also EDUC 459[4590]) @ (SBA)

Fall. 4 credits. Next offered 2007–2008.
N. Assié-Lumumba.]

AS&RC 463(4201) Islam in Africa and Its Diaspora (CA) (also NES 471[4710], AS&RC 663[4205])

Fall. 4 credits. A. Mazrui.
It has been estimated that one-third of the Muslim population of the world is in Africa and the African Diaspora. This course

addresses the historical dimension of Islam in the Black experience examining Global Africa as a whole. Within the African continent, Islam is part of the triple religious heritage, which includes rivalry with Christianity and co-existence with African indigenous religions. In the Americas, Islam is up against Western secularism and Christianity. We are concerned with how Islam has affected the politics and cultures of the African peoples worldwide, issue of slavery and Islam, and the interaction between Islam and contemporary ideologies of socialism, nationalism and race consciousness in the Black experience.

AS&RC 468–469(4900–4901) Honors Thesis

468, fall; 469, spring. Prerequisite: permission of AS&RC director of undergraduate studies. Africana Center faculty.
For senior Africana Studies majors working on honors theses, with selected reading, research projects, etc., under the supervision of a member of the Africana Studies and Research Center faculty.

[AS&RC 475(4301) Black Leaders and Movements in African-American History (HA)

Fall. 4 credits. Next offered 2007–2008.
R. Harris.]

[AS&RC 478(4606) The Family and Society in Africa (also SOC 478) @ (SBA)

Fall. 4 credits. Next offered 2007–2008.
N. Assié-Lumumba.]

AS&RC 479(4602) Women and Gender Issues in Africa @ (SBA)

Spring. 4 credits. N. Assié-Lumumba.
There are two contrasting views of the status and role of women in Africa. One view portrays African women as dominated and exploited by men. According to another view women have a favorable social position in Africa: indigenous ideologies consider women to be the foundation of society, they are economically active and independent and they have an identity independent of men. In this seminar we discuss the status and role of women in Africa historically as well as in the contemporary period. Topics include women in non-westernized/precolonial societies; the impact of colonial policies on the status of women; gender and access to schooling, participation in the economy and politics; women and the law; women and health issues; gender issues in southern Africa; womanism and feminism; the United Nations Decade of Women; and the four World Conferences on Women (Mexico 1975, Copenhagen 1986, Nairobi 1985, and Beijing 1995).

AS&RC 484(4603) Politics and Social Change in Southern Africa @ (SBA)

Spring. 4 credits. L. Edmondson.
Focuses on the legacies of apartheid and the challenges of transformation toward a post-apartheid society in South Africa. Topics include the rise and decline of apartheid; the historical continuity of Black resistance against racism; women under, against, and after apartheid; South Africa's relations with its neighbors; geo-political, economic, and racial dimensions of the American connection; politics of negotiation and transition to majority rule; prospects for stability, democracy, and equality; and South Africa's new role in the African continental and global

arenas. Instructor's lectures are supplemented by films and class discussions.

AS&RC 490(4302) Nile Valley Civilization: Ethiopia, Nubia, and Egypt @ (HA)

Spring. 4 credits. A. Bekerie.
Focuses on Nile Valley civilizations and their contributions to African and world history. Since natural and human resources provide the foundation for civilizations, the course also examines the ecological and cultural compositions of the river. Concentrates on the Aksumite civilization of Ethiopia, Nubian civilizations of the Sudan, and the Kemetic civilizations of Egypt. Uses archaeological, literary, oral, biological, and religious sources to study civilization centers along the Nile. Students discuss civilizations as artifacts that have material, spiritual, social, and philosophical dimensions. Students are introduced to the Ethiopic writing system as a practical lesson in the conception and understanding of aspects of African civilizations.

AS&RC 498–499(4902–4903) Independent Study

498, fall; 499, spring. Africana Studies faculty.
For students working on special topics, with selected reading, research projects, etc., under the supervision of a member of the Africana Studies and Research Center faculty.

AS&RC 502(6600) Education and Development in Africa

Spring. 4 credits. N. Assié-Lumumba.
Human capital theory establishes a positive and linear relationship between formal education and individual productivity and socioeconomic attainment and economic growth and development of nations. While enjoying considerable popularity in industrial and developing countries, including African countries, education has also been perceived as a hindrance to development. The concept of human capital and paradigms of development including modernization, dependency, and Third World Forum are first introduced. Specific issues discussed include schooling and nonformal education; the role of primary, secondary, and higher education in development; and language, access, output, and outcome based on social class, ethnicity, race, and gender. Employment, migration and international brain drain, the information and communication technologies, indigenous knowledge systems, and the role of higher education in regional and international cooperation are also examined.

AS&RC 503(6506) African Aesthetics (also ART H 571[5571], VISST 503[5030])

Fall. 4 credits. S. Hassan.
The goal of this course is to investigate in depth the principles of aesthetics and philosophy of African visual arts. The course offers a critical survey of the different writings and the growing body of research on this relatively new area of inquiry. The objectives of the course are to review how African aesthetics have been studied to date, to provide a critical analysis of the different approaches to the subject and related issues, and to suggest future directions of research. In-depth analysis of particular African societies is used to examine the relationship of arts and aesthetics to indigenous concept of time, space, color, form, and sociopolitical order. In addition, issues related to African aesthetics

and arts such as style, gender, class, and social change are also explored.

AS&RC 504(6201) Political Change in Africa (also AS&RC 311[3600]) SBA

Spring. 4 credits. A. Mazrui.

The study of African can be approached dialectically (focusing on the tension between opposing forces) or thematically (focusing on themes as chapters of experience). This course borrows from both these approaches. In their class assignments and examinations students are free to use either approach. The first approach explores the dialectic between continuity and change; tradition and modernity; dependency and liberation; foreign and indigenous influences; anarchy and order; political decay and political development; democracy and authoritarianism; and socialism and capitalism. The thematic approach examines African Nationalism; race consciousness and Pan-Africanism; political parties and interest groups; executive power; ethnicity in politics; class-formation; civil-military relations; economic and cultural dependency; sub-regional and continental Pan-Africanism; crisis of the African state; and Africa in World Politics.

AS&RC 506(6500) Contemporary African Diaspora Art (also ART H 506[5505])

Spring. 4 credits. C. Finley.

Since the 1950s, projects of black liberation and empowerment have influenced the work of African Diaspora artists in the black Atlantic. Pivotal historic events, such as the Civil Rights Movement, the dismantling of colonial rule in Africa and the Brixton race riots in England, have urged black artists to reexamine issues of memory, identity, history and belonging. This course considers those artists who trace a visual genealogy of the African Diaspora and work in what has been identified as a practice of remembrance. The focus is on artists working after 1960, but students also study the roots of this tradition in the beginning of the 20th century and in earlier periods.

AS&RC 598-599(6900-6901) Independent Study

598, fall; 599, spring. Variable credit.
Prerequisite: graduate standing. Africana Studies faculty.

AS&RC 601-602(6902-6903) Africana Studies Graduate Seminar

601, fall; 602, spring. 4 credits. Africana Studies faculty.

Designed for first-year AS&RC graduate students. The seminar is coordinated and supervised by one professor but team-taught by three or four faculty members per semester. Each participating faculty member is responsible for a topical *segment* of the course related to her or his areas of specialization or an area of interest pertaining to theory and methodology of Africana Studies.

AS&RC 608(6508) Exhibiting Cultures (also AS&RC 408[4504], ART H 408[4508], ART H 608[6508])

Fall. 4 credits. C. Finley.

For description, see ART H 608.

AS&RC 612(6203) Gender and Slavery in the Americas (also FGSS 622[6220])

Spring. 4 credits. W. Battle-Baptiste.

This course provides an introduction to some of the main concerns and debates associated with slavery and slave societies in the Americas. We will seek to place New World African slavery as it related to women and

place them in our understanding of African slavery thereby attempting to engender traditional notions of slavery in the Americas. By taking a historical approach, we will explore how, in various ways and specific places, the production and representation of difference as a mode of subordination was forged and resisted in the context of slavery and colonialism. We will explore the intersectionality of race, class, and genders as multiple sites of oppression experienced by enslaved women in the United States, the Caribbean, and Brazil. This course also critically engages the ways in which gendered approaches raise new questions and reformulate traditional notions of the impact of slavery on African peoples in the New World. Through the use of film, literature, history and anthropological theory, we will address larger issues of kinship and the black family, community life, sexual exploitation, collective resistance, women in the plantation economy, and self-expression as transformative strategies used by enslaved women to survive slavery and positively contribute to black cultural production.

AS&RC 615(6604) Psychology of Black Identity (also FGSS 615[6150], HD 615[6150])

Spring. 4 credits. L. Wilton.

This course will provide students with an opportunity to examine the psychology of Black identity with a focus on critical works in this area (i.e., Daryl Michael Scott's *Contempt and Pity: Social Policy and the Image of the Damaged Black Psyche, 1880-1996*, William E. Cross, Jr.'s *Shades of Black: Diversity in African-American Identity*, Tiffany Patterson's *Zora Neale Hurston and the History of Southern Life*, Thomas Glave's *Words to Our Now: Imagination and Dissent*). Earlier work on Black identity focused on a Black self-hatred theme, locating Black identity in a self-hatred/deficit paradigm. With the advent of socio-historical and -political movements (i.e., Civil Rights and Black Power Movements), critical work on Black identity began to (re)emerge in the field of Black psychology. Through the development of Nigrescence, or the developmental process of becoming Black, Black racial identity theory has moved in the direction of exploring how Black identity influences Black people's perceptions, mental health, and behavior. In this course, students will examine a range of topics including theorizing Black identity in the African Diaspora; conceptualizing the psychology of Black identity in historical perspective; the intersection of Black, gender, and queer identities; Black identity and the psychology of Nigrescence; Black aesthetics; the impact of Black dialect on the identity and culture for Black youth.

AS&RC 620(6602) Black Communities and Politics and Health (also FGSS 621[6210], HD 622[6220])

Fall. 4 credits. L. Wilton.

This course will provide students with an opportunity to examine how socio-historical, -political, and -economic social structures have an impact on the politics of health in Black communities. Specifically, major health topics will focus on critical works in this area (i.e., Darlene Clark Hine's *Black Women in White: Racial Conflict and Cooperation in the Nursing Profession, 1890-1930*, Cathy Cohen's *Boundaries of Blackness: AIDS and the Breakdown of Black Politics*, Angela Davis' *Are Prisons Obsolete?* Dorothy

Roberts' *Shattered Bonds: The Color of Child Welfare*, Wesley Crichtlow's *Buller Men and Batty Bwoys: Hidden Men in Toronto and Halifax Black Communities*). Building on a critical approach to the field of health, a critical emphasis will be placed on how power relations structure organizations and communities within their broader socio-historical, -political, -economic, and -cultural contexts. Students will engage in critical analysis and thoughtful reflection in exploring and challenging their values, assumptions, perceptions, and biases related to health care, as well as a critique of service of micro- and macro sociopolitical processes that influence asymmetrical power relationships in Black communities (i.e., role of medical authority, development and professionalization of medicine).

AS&RC 663(4205) Islam In Africa and Its Diaspora (also AS&RC 463[4201], NES 671[6710])

Fall. 4 credits. A. Mazrui.

For description, see AS&RC 463.

AS&RC 698-699(8900-8901) Thesis

698, fall; 699, spring. Prerequisite: AS&RC graduate students. Africana Studies faculty.

AKKADIAN

See "Department of Near Eastern Studies."

AMERICAN STUDIES

M. Jones-Correa, director; G. Altschuler, E. Baptist, R. Bensel, S. Blumin, M. P. Brady, J. Brumberg, D. Chang, E. Cheyfitz, J. Cowie, J. Frank, J. E. Gainor, M. C. Garcia, F. Gleach, S. Haenni, R. Harris, K. Jordan, M. Kammen, J. Kirschner, R. Kline, I. Kramnick, F. Logevall, T. J. Lowi, B. Maxwell, K. McCullough, L. L. Meixner, R. Mize, R. L. Moore, V. Nee, M. B. Norton, J. Parmenter, R. Polenberg, S. Pond, J. Rabkin, A. Sachs, N. Salvatore, S. Samuels, M. E. Sanders, V. Santiago-Irizarry, M. Shefter, A. Simpson, A. M. Smith, H. Spillers, T. Tu, S. Villenas, N. Waligora-Davis, M. Washington, S. Wong, M. Woods. Affiliated faculty: J. E. Bernstock, H. Gottfried, M. Hatch, L. Herrin, J. Jennings, P. McClelland, J. Peraino, P. Sawyer. Emeritus: D. E. McCall, J. Porte, J. Silbey

The Major

The major in American Studies, appropriate for a wide array of future professions, began as a program of coordinated study in the history, literature, and politics of the United States. These remain the core elements, but American Studies aims to be inclusive in its subject matter. Given the nation's diverse population and cultures, the program wants its majors to examine American experience in broad terms, drawing on the materials and methods of a variety of disciplines.

Students who contemplate becoming American Studies majors are encouraged to speak with the program director as early as possible to arrange for a major advisor.

All students majoring in American Studies must take a minimum of 12 courses selected from the American Studies roster. No more than six of these courses can come from any one discipline. Of the 12 courses at

least three must have a substantial focus on material before 1900, at least two must deal with American diversity (AM ST 109 and 110 are especially recommended), and at least one must be a 400 level seminar, either an American Studies 430 course or an appropriate substitute seminar at the 400 level (AM ST 500/501, taught in Washington, D.C., does not fulfill the seminar requirement though it counts as one course toward the major). Note: A single course may satisfy more than one of these requirements: e.g., a course on Native Americans in the 1800s is both a course dealing substantially with pre-1900 material and one dealing with American diversity.

Although a good bit of freedom is encouraged in the selection of courses, American Studies majors, in consultation with their advisor, must define an area of concentration and complete six courses in that area. The area of concentration can be designed to fit the particular interests of a student, but it must include subjects in at least two disciplines. Possible areas of concentration include "visual studies," "cultural studies," "race and ethnicity," "legal and Constitutional studies," "American institutions," "class and social structure," "the American environment". (Courses taken to satisfy the concentration may be used to fulfill other requirements for the major.)

Students may find courses relevant to American experience that they wish to take but that are not on the American Studies course list. With their advisor's approval, students may count two such courses toward fulfilling the major.

Honors

Candidates for honors must maintain an average of B+ in courses pertinent to the major and have taken at least one course in which they wrote a research paper. Normally, at the end of the junior year students who wish to write a senior honors essay must approach a member of the American Studies faculty and discuss their ideas for a project. With approval from the faculty member students may then register in the fall of their senior year for AM ST 493, the honors essay tutorial. At the end of the fall semester, honors candidates meet with their advisor and a second member of the American Studies faculty to discuss their progress. If satisfactory, honors students complete their honors essays in the spring by enrolling in AM ST 494.

American Studies 430 Seminars

AM ST 430.5(4301) The Rabinor Seminar (also AAS 430[4301], ENGL 430[4030], HIST 448[4480])

Spring. 4 credits. Prerequisite: permission of instructor. S. Wong.

The Rabinor Seminar explores the role of diversity in the formation of a distinct American tapestry. The specific topic varies each year, but the general subject is the promise and experience of pluralism. Topic for spring 2007: "The Stranger in American Literature." Who, or what, is a stranger? How is the category of the "stranger" to be marked off from, for example, that of the foreigner, outsider, refugee, exile, wanderer, pariah, or barbarian? What is the history of the social function of the stranger in American life? What does this figure tell us about belonging or not belonging? How has the "stranger" (across registers of race, class, sexuality, gender or nationality) figured in twentieth-century U.S.

literature? What can we learn about the figure of the stranger as sociological type and as literary type? These are some questions that will guide our inquiry this semester.

[AM ST 430.6(4300) The Milman Seminar

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2007–2008. G. C. Altschuler.]

AM ST 430.9(4308) American Political Culture From JFK to Bill Clinton

Fall. 4 credits. Limited to 15 students. Preference given to AM ST majors and seniors. N. Salvatore.

The course will examine the changes in American political culture across this forty year period. With a broad focus on the fluctuating fortunes of a once dominant liberalism and an ever more powerful modern conservatism—and the impact of religious activism on both, we will also explore a series of specific issues at the center of these changes. Among these would be the civil rights movement and the student movements of the 1960s, and reactions to them; the debates over abortion, the role of the federal government, and the direction of American foreign policy; and the re-emergence of an evangelical impulse in political discussion and its impact on liberal as well as conservative thought. Class discussions of that week's book, a series of short essays, and a research paper selected in consultation with the professor constitute the requirements.

AM ST 430.10(4309) The Cinema and the American City (also FILM 430[4300], VISST 430[4630])

Fall. 4 credits. Limited to 15 students. Priority given to AM ST majors and seniors. S. Haenni.

The emergence of the cinema in the late-nineteenth century coincided with the emergence of a new kind of metropolis, characterized, among other things, by new traffic systems (elevated train, subway, automobile), new racial, ethnic, and sexual regimes, and new urban planning. The cinema was inevitably affected by the ways in which the city developed, while at the same time it also made the city legible. In this course, we will examine how American cities and towns have been represented in film in different ways, as, for instance, musical symphonies, mysteries to be deciphered, or post-apocalyptic wastelands. We will explore how gender, racial, ethnic, class and sexual identities are negotiated in the modern, cinematic city. Screenings will range from silent and early sound films, such as *The Crowd* and 1930s musicals, to contemporary cinema, such as *Do the Right Thing* and *Blade Runner*; our viewings will be guided by readings in film and urban theory and history.

Anthropology, Sociology, and Economics

[AM ST 221(2721) Anthropological Representation: Ethnographies of Latino Culture (also ANTHR/LSP 221[2721])

3 credits. Next offered 2007–2008. V. Santiago-Irizarry.]

AM ST 231(2300) Latino Communities (also D SOC/LSP 230[2300])

Spring. 4 credits. R. Mize. For description, see D SOC 230.

AM ST 235(2350) Archaeology of North American Indians (also AIS 235[2350], ANTHR 235[2235], ARKEO 235[2235])

Spring. 4 credits. K. Jordan. For description, see ANTHR 235.

AM ST 353(3453) Anthropology of Colonialism (also AIS 353[3530], ANTHR 353[3453])

Fall. 4 credits. A. Simpson. For description, see ANTHR 353.

AM ST 375(3750) Comparative Race and Ethnicity (also D SOC/LSP 375[3750])

Spring. 4 credits. R. Mize. For description, see D SOC 375.

[AM ST 377(3777) The United States (also ANTHR/LSP 377[3777])

4 credits. Next offered 2007–2008. V. Santiago-Irizarry. For description, see ANTHR 377.]

AM ST 384(3204) Introduction to the Anthropology of the African Diaspora (also AS&RC 384[3204])

Fall. 4 credits. W. Battle-Baptiste. For description, see AS&RC 384.

AM ST 453(4204) The Archaeology of Slavery (also AS&RC 453[4204], ANTHRO 453[4253], ARKEO 453[4253])

Fall. 4 credits. W. Battle-Baptiste. For description, see AS&RC 453.

AM ST 472(4272) Historical Archaeology (also AM ST 672[6272], ANTHR 472/772[4272/7272], ARKEO 472/772[4272/7272])

Fall. 4 credits. K. Jordan. For description, see ANTHR 472.

AM ST 642(6424) Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR 624[6424], LSP 624[6424], LAW 723[7231])

Spring. 4 credits. V. Santiago-Irizarry. For description, see ANTHR 624.

AM ST 672(6272) Historical Archaeology (also AM ST 472[4272], ANTHR 472/772[4272/7272], ARKEO 472/772[4272/7272])

Fall. 4 credits. K. Jordan. For description, see ANTHR 472.

Literature and Theatre Arts

AM ST 206(2030) Introduction to American Literature (also ENGL 203[2030])

Fall. 4 credits. A. Galloway. For description, see ENGL 203.

AM ST 207(2040) Introduction to American Literature (also ENGL 204[2040])

Spring. 4 credits. J. Carlacio. For description, see ENGL 204.

[AM ST 215(2150) SSP: Comparative American Literature (also COM L 215[2150])

4 credits. Next offered 2007–2008. B. Maxwell. For description, see COM L 215.]

[AM ST 219(2060) The Great American Novel (also ENGL 206[2060])

4 credits. Next offered 2007–2008. M. Hite.]

[AM ST 230(2760) Survey of American Film (also FILM 276[2760], VISSST 230[2300]) (LA)]

4 credits. Each student must enroll in a section and attend one screening per week. Next offered 2007-2008. S. Haenni.

Focusing mostly on Hollywood film, this course surveys some major developments in and approaches to 20th-century American cinema. We trace changes in film aesthetics and film style, the development of the American cinema as an institution that comprises an industrial system of production, social and aesthetic norms and codes, and particular modes of reception. The course introduces methodological issues in American film history—especially questions of narrative, genre, stardom, and authorship—and focuses on the ways film shapes gender, race, class, ethnic, and national identities. Screenings include work by D. W. Griffith, John Ford, Howard Hawks, Orson Welles, Vincente Minnelli, Robert Altman, Charles Burnett, Spike Lee, and others and are supplemented by readings in film criticism and history.]

[AM ST 252(2510) 20th-Century Women Writers (also ENGL/FGSS 251[2510])]

4 credits. Next offered 2007-2008. E. DeLoughrey.

For description, see ENGL 251.]

[AM ST 253(2520) Late 20th-Century Women Writers and Visual Culture (also ENGL/FGSS/VISST 252[2520])]

4 credits. Next offered 2007-2008.

For description, see ENGL 252.]

[AM ST 260(2600) Introduction to American Indian Literature (also ENGL 260[2600])]

4 credits. Next offered 2007-2008.

E. Cheyfitz.

For description, see ENGL 260.]

[AM ST 262(2620) Asian American Literature (also ENGL/AAS 262[2620])]

Fall. 4 credits. S. Wong.

For description, see ENGL 262.]

[AM ST 268(2680) The Culture of the 1960s (also ENGL 268[3680])]

Fall. 4 credits. P. Sawyer.

For description, see ENGL 263.]

[AM ST 275(2750) The American Literary Tradition (also ENGL 275[2750])]

4 credits. Next offered 2007-2008.

N. Waligora-Davis.

The problem of an American national literature is explored through the reading, discussion, and close analysis of texts across the range of American literary history. Not a survey, this course focuses on the relations of the texts to each other, the shaping of national identities in those relationships, and the assumptions about history, language, and the self that underlie them.]

[AM ST 293(2650) Survey in African American Literature (also ENGL 293[2930])]

4 credits. Next offered 2007-2008.

H. Spillers.

For description, see ENGL 293.]

[AM ST 335(3370) Contemporary American Theatre (also THETR/ENGL 337[3370])]

Fall. 4 credits. Next offered 2007-2008.

S. Warner.

For description, see THETR 337.]

[AM ST 338(3440) American Film Melodrama (also FILM/ENGL 344[3440])]

4 credits. Next offered 2007-2008.

S. Haenni.

See FILM 344.]

[AM ST 348(3480) Film Noir (also FILM 346[3460], VISSST 348[3480]) (LA)]

Spring. 4 credits. Recommended: some course work in film. S. Haenni.

At the close of World War II, the French coined the semester "film noir" to describe a new, "dark," and "gloomy" set of Hollywood films that were populated by femmes fatales, criminal gangs, private eyes, and lovers on the run, and that centered on issues of violence, crime, paranoia, betrayal, pessimism, and self-doubt. Deriving from a hard-boiled detective fiction, and influenced by German expressionist cinema, *film noir* has now become one of the most acclaimed genres in Hollywood film. In this course we explore both the stylistic characteristics and thematic and cultural contexts of *film noir*. We examine the history and function of "noir" as a critical term; the evolution of *noir* style and *noir* narratives; the influence of hard-boiled fiction. We investigate how *film noir* articulates anxieties about postwar masculinity and about the sexual and social roles of women; how it popularizes psychology; how it portrays the city as an "urban jungle"; and how it represents a response to fears about communism and the atomic bomb. Screenings include major studio features such as *Double Integrity* and *Laura*, B-pictures such as *Detour* and *Gun Crazy*, and "neo-noirs" such as *Chinatown* and *Devil in a Blue Dress*. The discussion of films is guided by readings in film criticism and history.

[AM ST 361(3610) Studies in the Formation of U.S. Literature: Emerson to Melville (also ENGL 361[3610])]

4 credits. Next offered 2007-2008.

D. Fried.]

[AM ST 364(3640) Studies in U.S. Literature after 1850 (also ENGL 362[3620])]

Fall. 4 credits. N. Waligora-Davis.

For description, see ENGL 362.]

[AM ST 365(3650) American Literature Since 1945 (also ENGL 365[3650])]

4 credits. Next offered 2007-2008.

B. Maxwell.]

[AM ST 366(3660) Studies in U.S. Fiction before 1900: The 19th-Century American Novel (also ENGL 366[3660])]

Spring. 4 credits. S. Samuels.

For description, see ENGL 366.]

[AM ST 367(3670) Studies in U.S. Fiction after 1900 (also ENGL 367[3670])]

Spring. 4 credits. M. P. Brady.

For description, see ENGL 367.]

[AM ST 368(3680) The American Novel Since 1950 (also ENGL 368[3680])]

4 credits. H. Spillers.

For description, see ENGL 368.]

[AM ST 372(3780) American Poetry Since 1950 (also ENGL 378[3780])]

4 credits. Next offered 2007-2008.

R. Gilbert.]

[AM ST 373 Studies in U.S. Literature After 1950 (also ENGL 364[3640])]

Fall. 4 credits. D. Woubshet.

For description, see ENGL 364.]

[AM ST 374(3681) Slavery in 20th-Century American Film and Fiction (also ENGL 374[3740])]

Spring. 4 credits. N. Waligora-Davis.

For description, see ENGL 374.]

[AM ST 387(3910) Studies in African-American Literature (also ENGL 391[3910])]

Fall. 4 credits. H. Spillers.

For description, see ENGL 391.]

[AM ST 393(3930) International Film of the 1970s (also FILM 393[3930], VISSST 393[3930])]

4 credits. Next offered 2007-2008.

S. Haenni.

For description, see FILM 393.]

[AM ST 395(3970) Policing and Prisons in American Culture (also ENGL 397[3970])]

Spring. 4 credits. B. Maxwell.

For description, see ENGL 397.]

[AM ST 396(3981) Latino/a Popular Cultural Practices (also ENGL/LSP 398[3980])]

Spring. 4 credits. M. P. Brady.

For description, see ENGL 398.]

[AM ST 403(4030) Senior Seminar in Poetry: Studies in American Poetry: 1955-1980 (also ENGL 403[4030])]

Fall. 4 credits. R. Gilbert.

For description, see ENGL 403.]

[AM ST 465(4650) American Violence (also ENGL 465[4650])]

4 credits. Next offered 2007-2008.

S. Samuels.

For description, see ENGL 465.]

[AM ST 468(4780) Intersections in Lesbian Fiction (also ENGL 478[4780], FGSS 477[4770])]

4 credits. Next offered 2007-2008.

K. McCullough.]

[AM ST 475(4750) Seminar in Cinema I (also FILM 475[4750])]

4 credits. Next offered 2007-2008.

D. Fredericksen.

For description, see FILM 475.]

[AM ST 476(4760) American Melodrama and Film (also FILM 476[4760])]

4 credits. Next offered 2007-2008.

S. Haenni.

For description, see FILM 476.]

[AM ST 477(4601) Melville (also ENGL 477[4600])]

Fall. 4 credits. B. Maxwell.

For description, see ENGL 477.]

[AM ST 479(4790) Advanced Seminar in American Literature: Visual Culture & Women's Literature (also ENGL 479[4790], FGSS 479[4790], VISSST 476[4760])]

Fall. 4 credits. S. Samuels.

For description, see ENGL 479.]

Government and Public Policy

GOVT 111(1111) Introduction to American Government and Politics

Fall. 3 credits. T. Lowi.

Introduction to government through the American experience. Concentration on analysis of the institutions of government and politics as mechanisms of social control.

AM ST 263(2615) Feminist Theory/State Theory (also GOVT 261[2615], FGSS 261[2610])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 261.

[AM ST 302(3021) Social Movement in American Politics (also GOVT 302[3021])

4 credits. Next offered 2007–2008.

M. E. Sanders.

For description, see GOVT 302.]

[AM ST 310(3271) Civil Liberties in the United States (also GOVT 327[3271])

4 credits. Next offered 2007–2008.

J. Rabkin.

For description, see GOVT 327.]

AM ST 311(3111) Urban Politics (also GOVT 311[3111])

Fall. 4 credits. M. Shefter.

For description, see GOVT 311.

AM ST 313(3191) Racial and Ethnic Politics (also GOVT 319[3191], LSP 319[3191])

Spring. 4 credits. M. Jones-Correa.

For description, see GOVT 313.

AM ST 315(3141) Prisons (also GOVT 314[3141])

Fall. 4 credits. M. Katzenstein.

For description, see GOVT 314.

AM ST 316(3161) The American Presidency (also GOVT 316[3161])

Spring. 4 credits. M. E. Sanders.

For description, see GOVT 316.

AM ST 319(3181) The U.S. Congress (also GOVT 318[3181])

Spring. 4 credits. M. Shefter.

For description, see GOVT 318.

AM ST 326(3031) Imagining America: Race and National Fantasy in European Travel Writing from De Tocqueville to Baudrillard (also COM L 341[3410], GOVT 303[3031], FRLIT 324[3240]) (CA)

Fall. 4 credits. D. Rubenstein.

Addresses 19th- and 20th-century European travel writing about America from Alexis de Tocqueville's landmark work, *Democracy in America*, to Jean Baudrillard's polemical *America and Umberto Eco's Travels in Hyperreality*. Concerned with the question of what America, as both "utopian" ideal and as a living example, represents for the European philosophical voyager. For example, what role does national fantasy play in the encounters revealed in Julia Kristeva's excursion to American universities in *The Samurai* or in Simone de Beauvoir's guided (by Richard Wright) tour as recounted in her diary *America Day by Day*? Also discusses Francois-René de Chateaubriand's *René* and *Atala* as a literary limit case of intercultural exchange. Also considers how race is implicated in these writings (e.g., de Tocqueville, de Beauvoir; Kristeva's consideration of "the foreigner") and the pertinence of American genres such as the captivity narrative for readings

of Chateaubriand or de Tocqueville and Beaumont's writings on prison.

[AM ST 328(3281) Constitutional Politics: The United States Supreme Court (also GOVT 328[3281])

4 credits. Next offered 2007–2008.

J. Rabkin.

For description, see GOVT 328.]

[AM ST 362(3655) Politics and Literature (also GOVT 365[3655])

4 credits. Next offered 2007–2008. J. Frank.

For description, see GOVT 365.]

AM ST 376(3665) American Political Thought from Madison to Malcolm X (also GOVT 366[3665], HIST 316[3160])

Fall. 4 credits. I. Kramnick.

For description, see GOVT 366.

AM ST 389(3911) Science in the American Polity, 1960 to Now (also S&TS 391[3901], GOVT 309[3091])

Spring. 4 credits. S. Hilgartner.

For description, see S&TS 391.

[AM ST 404(4041) American Political Development in the 20th Century (also GOVT 404[4041])

4 credits. Next offered 2008–2009.

M. E. Sanders.

For description, see GOVT 404.]

AM ST 406(4061) The Politics of Slow-Moving Crises (also GOVT 406[4061], GOVT 616[6161])

Fall. 4 credits. M. Jones-Correa.

For description, see GOVT 406.

[AM ST 422(4201) War at Home (also GOVT 420[4201])

4 credits. Next offered 2007–2008.

M. Shefter and J. Rabkin.

See GOVT 420.]

AM ST 424(4241) Contemporary American Politics (also AM ST 624[6291], GOVT 424/624 [4241/6291])

Fall. 4 credits. M. Shefter.

For description, see GOVT 424.

AM ST 425(4231) The 1960s: Conceptualizing the Future from the Past (also GOVT 423[4231])

Fall. 4 credits. J. Kirshner and T. Lowi.

For description, see GOVT 423.

AM ST 428(4281) Government and Public Policy: An Introduction to Analysis and Criticism (also AM ST 628[6281], GOVT 428/728[4281/7281])

Fall. 4 credits. T. Lowi.

For description, see GOVT 428.

[AM ST 458(4585) American Political Thought (also GOVT 458[4585], GOVT 658[6585])

4 credits. Next offered 2008–2009. J. Frank.

For description, see GOVT 458.]

AM ST 460(4265) Sexuality and the Law (also AM ST 660[6625], GOVT 462/762[4265/7625], FGSS 461/762[4610/7620])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 462.

AM ST 501(4998) Politics and Policy: Theory, Research, and Practice (also GOVT 500[4998], ALS 500[4998], PAM 406)

Fall and spring. 8 credits each semester.

S. Jackson.

Offered in Cornell in Washington Program. This course, taught in Washington, D.C., forms the core of the public policy option of the Cornell in Washington Program.

AM ST 616(6161) Politics of Slow-Moving Crises (also AM ST 406[4061], GOVT 406/616[4061/6161])

Fall. 4 credits. M. Jones-Correa.

For description, see GOVT 406.

AM ST 624(6291) Contemporary American Politics (also AM ST 424[4241], GOVT 424/624[4241/6291])

Fall. 4 credits. M. Shefter.

For description, see GOVT 424.

AM ST 628(6281) Government and Public Policy: An Introduction to Analysis and Criticism (also AM ST 428[4281], GOVT 428/728[4281/7281])

Fall. 4 credits. T. Lowi.

For description, see GOVT 428.

AM ST 660(6625) Sexuality and the Law (also AM ST 460[4265], GOVT 462/762[4265/7625], FGSS 461/762[4610/7620])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 462.

AM ST 664(6645) Democratic Theory (also GOVT 664[6645])

Fall. 4 credits. J. Frank.

For description, see GOVT 664.

History

AM ST 103(1530) Introduction to American History (also HIST 153[1530])

Fall. 4 credits. M. Washington.

For description, see HIST 153.

AM ST 104(1531) Introduction to American History (also HIST 154[1531])

Spring. 4 credits. A. Sachs.

An introductory survey of the development of the United States since the Civil War.

[AM ST 109(1109) Introduction to American Studies: New Approaches to Understanding American Diversity, the 19th Century # (HA)

4 credits. Next offered 2007–2008.

N. Salvatore.]

[AM ST 110(1110) Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (also AAS 111 [1110]) (HA)

4 credits. Next offered 2007–2008.

M. C. Garcia and D. Chang.]

AM ST 111(1111) Introduction to Asian American Studies (also AAS 111[1100])

Spring. 4 credits. T. Tu.

For description, see AAS 111.

AM ST 124(1240) Democracy and Its Discontents: Political Traditions in the United States (also HIST 124[1240]) (HA)

Summer. 3 credits. N. Salvatore.

An examination of democracy and its critics. The course explores the evolution of democracy in America, focusing on some of the dramatic and important episodes in American history. It considers the struggles over the emancipation of slaves in the 19th century and expanded rights for women and working people in the 20th

century, free-speech issues, the civil-rights movement, religious-based critiques of American culture, and conservative critiques of American liberalism. The course serves as an investigation of the ways in which political expression takes forms in modern American culture. In addition to lectures, the course features several afternoon programs that include guest lecturers and hands-on instruction in how to use the modern electronic research library.

AM ST 201(2010) Popular Culture in the United States, 1900 to 1945 (HA)

Fall. 4 credits. G. Altschuler.

AM ST 201 deals with American popular culture in the period between 1900 and the end of World War II. As we examine best-sellers, films, sports and television, radio, ads, newspapers, magazines, and music, the goal is to better understand the ways in which popular culture as "contested terrain," the place where social classes, racial and ethnic groups, women and men, the powerful and the less powerful, seek to "control" images and themes. Topics include: the Western; Cultural Heroes and the Cult of Individualism in the 1920s; The Hays Code and the Black Sox scandal; Mae West and the "New Women"; Advertising in an Age of Consumption; Gangsters and G-Men; and Jackie Robinson and the American Dilemma.

AM ST 202(2020) Popular Culture in the United States, 1945 to Present (HA)

Spring. 4 credits. G. Altschuler.

AM ST 202 treats the period from 1945 to the present as we examine best-sellers, films, sports and television, radio, ads, newspapers, magazines, and music. We try to better understand the ways in which popular culture shapes and/or reflects American values. The course also depicts popular culture as "contested terrain," the place where social classes, racial and ethnic groups, women and men, the powerful and less powerful, seek to "control" images and themes. Topics include: *The Honeymooners* and 1950s television, soap operas; "gross-out" movies; Elvis; the Beatles and Guns 'n Roses; gothic romances; and *People Magazine* and *USA Today*.

[AM ST 203(2033) Wilderness in North American History and Culture (also HIST 203[2030])]

4 credits. Next offered 2008-2009.

A. Sachs.

For description, see HIST 203.]

[AM ST 204(2022) Court, Crime, and Constitution (also HIST 202[2020])]

4 credits. Next offered 2007-2008.

R. Polenberg.

For description, see HIST 202.]

AMST 205(2211) Seminar: The Blues and American Culture (also HIST 221[2211])

Fall. 4 credits. R. Polenberg.

For description, see HIST 221.

AM ST 209(2090) Seminar in Early America (also HIST/FGSS 209[2090])

Fall. 4 credits. Limited to 20 students.

M. B. Norton.

For description, see HIST 209.

[AM ST 210(2100) The Emergence of Modern Conservative Movement: From Strom Thurmond to Ronald Reagan]

4 credits. Limited to 15 students. Priority given to sophomores. Next offered 2007-2008. N. Salvatore.

This course explores the social and cultural roots of modern American conservatism and its rise to political prominence in the post-1945 era. We examine the movement's intellectual origins, social and cultural attitudes, and the political figures who presented conservatism's analysis to the public. The interplay between this revived political movement and a more liberal approach deeply grounded in the New Deal and its legacy receives attention as well.]

[AM ST 212(2120) African American Women: 20th Century (also HIST/FGSS 212[2120])]

4 credits. Next offered 2007-2008.

M. Washington.

For description, see HIST 212.]

[AM ST 213(2640) Introduction to Asian American History (also HIST 264[2640], AAS 213[2130])]

4 credits. Next offered 2007-2008.

D. Chang.

For description, see HIST 264.]

AM ST 216(2104) Dutch and English in Colonial NY (also HIST 204[2041])

Fall. 4 credits. J. Jacobs.

For description, see HIST 204.

[AM ST 218(2200) Road Trip in American History and Culture (also HIST 220[2200])]

4 credits. Next offered 2008-2009.

A. Sachs.

For description, see HIST 220.]

[AM ST 229(2290) Jefferson and Lincoln (also HIST 229[2290])]

4 credits. Limited to 15 students. Priority given to underclassmen. Next offered 2007-2008. E. Baptist.

For description, see HIST 229.]

AM ST 236(2360) Native People of the Northeast, Pre-Contact to the Present (also HIST/AIS 236[2360])

Spring. 4 credits. J. Parmenter.

For description, see HIST 236.

[AM ST 238(2390) Seminar in Iroquois History (also HIST 239[2390])]

4 credits. Next offered 2007-2008.

J. Parmenter.

For description, see HIST 239.]

AM ST 242(2420) Religion and Politics in American History from J. Winthrop to R. Reed (also HIST/RELST 242[2420])

Spring. 4 credits. Prerequisite: permission of instructor. R. L. Moore.

For description, see HIST 242.

[AM ST 251(2110) Black Religious Traditions from Slavery to Freedom (also HIST/RELST 211[2110])]

4 credits. Next offered 2007-2008.

M. Washington.

For description, see HIST 211.]

AM ST 259(2599) Latinos in the United States: Colonial Period to 1898 (also HIST 260[2600], LSP 260[2600])

Fall. 4 credits. M. C. Garcia.

For description, see HIST 260.

AM ST 261(2610) Latinos in the United States: 1898 to the Present (also HIST/LSP 261[2610])

Spring. 4 credits. M. C. Garcia.

For description, see HIST 261.

AM ST 266(2660) Introduction to Native American History (also HIST/AIS 266[2660])

Spring. 4 credits. J. Parmenter.

For description, see HIST 266.

[AM ST 272(2720) The Atlantic World from Conquest to Revolution (also HIST 272[2720])]

4 credits. Next offered 2008-2009.

M. B. Norton and R. Weil.

For description, see HIST 272.]

[AM ST 273(2730) Women in American Society, Past and Present (also HIST 273[2730])]

4 credits. Next offered 2007-2008.

M. B. Norton.

For description, see HIST 273.]

AM ST 283(2831) The Dutch and the Atlantic World (also HIST 283[2831])

Fall. 4 credits. J. Jacobs.

For description, see HIST 283.

AM ST 292(2980) Inventing an Information Society (ECE/ENGRG 298[2980], HIST 292[2920], S&TS 292[2921])

Spring. 3 credits. R. Kline.

For description, see ECE 298.

[AM ST 303(3030) African American Women in Slavery and Freedom (also HIST 303[3030], FGSS 307[3070])]

4 credits. Next offered 2007-2008.

M. Washington.

For description, see HIST 303.]

AM ST 304(3040) American Culture and Social Change, 1880 to 1980 (also HIST 304[3040])

Fall. 4 credits. M. Kammen.

For description, see HIST 304.

[AM ST 306(3060) History of American Workers: 1960 to 1990s (also ILCRB 306[3060])]

3 credits. Next offered 2007-2008.

J. Cowie.

For description, see ILCRB 306.]

[AM ST 308(3003) Working-Class America in Mass Media and Popular Culture (also ILCRB 303[3030])]

3 credits. Next offered 2007-2008.

J. Cowie.

For description, see ILCRB 303.]

[AM ST 309(3090) The Cinema and the American City]

4 credits. Next offered 2007-2008.

S. Haenni.

The emergence of the cinema in the late 19th century coincided with the emergence of a new kind of metropolis, characterized by, among other things, new traffic systems (elevated train, subway, automobile); new racial, ethnic, and sexual regimes; and new urban planning. The cinema was inevitably affected by the ways in which the city developed, while at the same time it also made the city legible. In this course we examine how American cities and towns have been represented in film in different ways, as, for instance, musical symphonies, mysteries to be deciphered, or post-apocalyptic wastelands. We explore how gender, racial, ethnic, class, and sexual identities are negotiated in the modern, cinematic city. Screenings range from silent and early sound films, such as *The Crowd* and 1930s musicals, to contemporary cinema, such as *Do the Right Thing* and *Blade Runner*; our viewings are guided by readings in film and urban theory and history.]

[AM ST 312(3140) History of American Foreign Policy (also HIST 314[3140])]
4 credits. Next offered 2007–2008.
F. Logevall.
For description, see HIST 314.]

AM ST 317(3180) American Constitutional Development (also HIST 318[3180])
Fall. 4 credits. R. Polenberg.
For description, see HIST 318.

AM ST 321(3210) Colonial North America to 1763 (also HIST 321[3210])
Fall. 4 credits. M. B. Norton.
For description, see HIST 321.

AM ST 322(3250) Age of the American Revolution, 1763 to 1815 (also HIST 325[3250])
Spring. 4 credits. M. B. Norton.
For description, see HIST 325.

AM ST 324(3240) Varieties of American Dissent, 1880 to 1990 (also HIST 324[3240])
Spring. 4 credits. N. Salvatore.
The idea of dissent in American society raises a variety of images. Civil rights activists, striking workers, and student radicals of the 1960s are familiar enough symbols of dissent. But might we understand a Pentecostal believer, filled with the spirit of his or her God in critiquing contemporary society, as an example of American dissent? This course explores the varieties of economic, political, and cultural dissent in American between 1880 and 1990, and examines how understanding dissent in its specific historical context illuminates major aspects of American life and culture.

[AM ST 331(3310) Causes of the American Civil War, 1815 to 1860 (also HIST 331[3310])]
4 credits. Next offered 2007–2008.
E. Baptist.
For description, see HIST 331.]

[AM ST 340(3400) Recent American History, 1925 to 1960 (also HIST 340[3400])]
4 credits. Next offered 2007–2008.
R. Polenberg.
For description, see HIST 340.]

AM ST 341(3410) Recent American History, 1960 to Present (also HIST 341[3410])
Spring. 4 credits. R. Vanderlan.
For description, see HIST 341.

[AM ST 343(3430) American Civil War and Reconstruction, 1860 to 1877 (also HIST 343[3430])]
4 credits. Next offered 2008–2009.
E. Baptist.
For description, see HIST 343.]

[AM ST 345(3450) Intellectual/Cultural Life of 19th-Century Americans (also HIST/RELST 345[3450])]
4 credits. Next offered 2007–2008.
A. Sachs.
For description, see HIST 345.]

[AM ST 346(3460) Modernization of the American Mind (also HIST 346[3460])]
4 credits. Next offered 2008–2009.
R. L. Moore.
For description, see HIST 346.]

[AM ST 349(3510) Environmental History: The United States and the World Culture (also HIST 315[3150])]
4 credits. Next offered 2008–2009.
A. Sachs.]

AM ST 351(3470) Asian American Women's History (also HIST 347[3470], AAS 347[3470], FGSS 347[3470])
Spring. 4 credits. D. Chang.
For description, see HIST 347.

[AM ST 356(3570) Engineering in American Culture (also ENGRG/HIST/S&TS 357[3570])]
4 credits. Next offered 2007–2008. R. Kline.
For description, see ENGRG 357.]

[AM ST 357(3550) Latinos, Law, and Identity (also LSP/D SOC 355[3550])]
3 credits. Next offered 2007–2008. R. Mize.
See D SOC 355.]

[AM ST 378(3708) Topics in U.S. Women's History (also HIST/FGSS 378[3780])]
4 credits. Next offered 2007–2008.
M. B. Norton.
See HIST 378.]

AM ST 402 America in the 1970s (also S HUM 419)
Fall. 4 credits. J. Cowie.
For description, see S HUM 419.

AM ST 405(4050) U.S.–Cuba Relations (also AM ST 605[6050], HIST 405/605[4050/6050], LAT A 405[4050], LSP 405/605[4050/6050])
Fall. 4 credits. M. C. Garcia.
For description, see HIST 405.

[AM ST 417(4170) History of Female Adolescence (also HD 417[4170], HIST 458[4580], FGSS 438[4380])]
4 credits. Prerequisite: permission of instructor. Next offered 2007–2008.
J. Brumberg.
For description, see HD 417.]

AM ST 419(4190) Seminar in American Social History (also HIST 419[4190])
Fall. 4 credits. Taught in Washington, D.C.
S. Blumin.
See HIST 419.

[AM ST 420(4220) Asian American Communities (also HIST 420[4200], AAS 424[4240])]
4 credits. Limited to 15 students. Next offered 2008–2009. D. Chang.]

AM ST 421(4120) Undergraduate Seminar in American Cultural History (also HIST 421[4210], ART H 421[4021])
Fall. 4 credits. Prerequisite: permission of instructor. M. Kammen.
For description, see HIST 421.

AM ST 426(4260) The West and Beyond: Frontiers and Borders in American History and Culture (also HIST 426[4260])
Spring. 4 credits. A. Sachs.
For description, see HIST 426.

[AM ST 427(4261) Sex, Rugs, Salt, and Coal (also HIST 428[4261])]
4 credits. Next offered 2007–2008.
A. Sachs.
See HIST 428.]

[AM ST 439(4039) Reconstruction and the New South (also HIST 439[4390])]
4 credits. Limited to 15 students. Next offered 2008–2009. M. Washington.
See HIST 439.]

[AM ST 444(4440) American Men (also HIST 444[4440])]
4 credits. Next offered 2008–2009.
E. Baptist.
See HIST 444.]

[AM ST 466(4660) Iroquois History (also HIST 466[4660])]
4 credits. Not open to freshmen. Next offered 2008–2009. J. Parmenter.
See HIST 466.]

[AM ST 497(4970) Jim Crow and Exclusion Era America (also AM ST 697[6970], HIST 497/697[4970/6970])]
4 credits. Next offered 2007–2008.
D. Chang.
See HIST 497.]

[AM ST 499(4900) New World Encounters, 1500 to 1800 (also HIST 490[4900])]
4 credits. Next offered 2007–2008.
J. Parmenter.
See HIST 490.]

AM ST 500(4997) Research Seminar in American Studies (also HIST 500[4997])
Fall or spring. Offered in Cornell in Washington Program only. S. Blumin and others.
For description, see HIST 500.

AM ST 605(6050) U.S.–Cuba Relations (also AM ST 405[4050], HIST 405/605[4050/6050], LSP 405/605[4050/6050])
Fall. 4 credits. M. C. Garcia.
For description, see HIST 405.

AM ST 610(6101) African-American Historiography (also HIST 610[6101])
Fall. 4 credits. M. Washington.
For description, see HIST 610.

[AM ST 697(6970) Jim Crow and Exclusion Era America (also AM ST 497[4970], HIST 497/697[4970/6970])]
4 credits. Not offered 2007–2008.
D. Chang.
For description, see HIST 497.]

Music and Visual Studies

[AM ST 105(1311) Popular Music in America: 1850 to 1985 (also MUSIC 101[1311])]
3 credits. Next offered 2007–2008. S. Pond.
See MUSIC 101.]

[AM ST 222(1313) A Survey of Jazz (also MUSIC 222[1313])]
3 credits. Next offered 2007–2008. S. Pond.
For description, see MUSIC 222.]

AM ST 223(1312) History of Rock Music (also MUSIC 221[1212])
Spring. 3 credits. J. Peraino.
For description, see MUSIC 221.

AM ST 227(2091) SSP: The Immigrant Imagination (also ART H 209[2190], AAS 209[2090])
Fall. 4 credits. T. Tu.
For description, see ART H 209.

[AM ST 270(2700) Mapping America (also ART H 270(2700))]

4 credits. Next offered 2007-2008.

L. L. Meixner.

See ART H 270.]

AM ST 282(2820) Photography and the American Landscape (also LA 282(2820))

Fall. 3 credits. A. Hammer.

For description, see LA 282.

AM ST 355(3605) U.S. Art from FDR to Reagan (also ART H 365(3605))

Fall. 4 credits. J. E. Bernstock.

For description, see ART H 365.

AM ST 360(3740) Painting in 19th-Century America (also ART H 360(3740))

Spring. 4 credits. L. L. Meixner.

For description, see ART H 360.

AM ST 390(3810) American Architecture and Building I (also ARCH 390(3810))

Fall. 3 credits. Prerequisites: ARCH 181-182 or permission of instructor. M. Woods.

For description, see ARCH 390.

AM ST 391(3811) American Architecture and Building II (also ARCH 391(3811))

Spring. 3 credits. Prerequisites: ARCH 181-182 or permission of instructor. M. Woods.

[AM ST 397(3818) Special Topics in the History of Architecture and Urbanism (also ARCH 398(3818))]

3 credits. Prerequisites: ARCH 181-182 or permission of instructor. Next offered 2007-2008. M. Woods.

For description, see ARCH 398.]

AM ST 408(4508) Exhibiting Cultures (also AM ST 608(6508); ART H 408/608(4508/6508); AS&RC 408/608(4504/6508))

Fall. 4 credits. C. Finley.

For description, see ART H 408.

[AM ST 412(4113) Race, Technology, and Visuality (also ART H 413(4113), AAS 413(4130))]

4 credits. Next offered 2007-2008. T. Tu.

See ART H 413.]

AM ST 414(4114) Popular Culture and Visual Practice in Asian America (also ART H 414(4114), AAS 414(4140))

Spring. 4 credits. T. Tu.

For description, see ART H 414.

AM ST 463(4761) Art and Social Histories (also ART H 461(4761))

Fall and spring. 4 credits. L. L. Meixner.

For description, see ART H 461.

Honors

Please see description of major for information about registration in these courses.

AM ST 493-494(4993-4994) Honors Essay Tutorial

493, fall; 494, spring. Up to 8 credits each semester. See M. Jones-Correa for appropriate advisors.

ANTHROPOLOGY

D. Holmberg, chair; J. Fajans, director of graduate studies; K. Jordan, director of undergraduate studies; A. Clark Arcadi, D. Boyer, M. Fiskesjo, F. Gleach, D. Greenwood, J. Henderson, E. Kohn, B. Lambert, S. Langwick, K. March, H. Miyazaki, V. Munasinghe, M. Ralph, J. Rigi, A. Riles, N. Russell, S. Sangren, V. Santiago-Irizarry, J. Schoss, J. Siegel, A. Simpson, M. Small, T. Volman, M. Welker, A. Willford. Emeritus: R. Ascher, B. J. Isbell, J. Murra, R. Smith.

Anthropology is one of the most diverse disciplines in the university. Spanning human evolution, the development and heterogeneity of language and culture, human history, and the diversity of cultures past and present, the field has broad scope, uses a variety of methods, addresses basic issues about human origins and human life, and maintains commitment to understanding social life and using this understanding to improve society. Anthropology is an ideal "liberal arts" major. It also serves as a major that, when well designed by the student with his or her advisor, prepares students for a wide range of professional careers, e.g., law, medicine, foreign service, human rights, social services, international development, and business, among others.

Courses for nonmajors: Anthropology welcomes nonmajors into many of its courses. Unless prerequisites are explicitly stated, 200- and 300-level courses do not have formal prerequisites and can be taken by students without prior experience in anthropology. Such students are welcome in these upper-level courses. For additional information to assist nonmajors and students from other colleges in selecting anthropology courses, see the anthropology department web page (falcon.arts.cornell.edu/Anthro/).

The Major

The major is structured to provide both general grounding in three subfields of anthropology (sociocultural anthropology, anthropological archaeology, and biological anthropology) and detailed focus on a particular area of concentration. Areas of concentration include a wide variety of subjects within and between these three subfields. Topics ranging from identity politics and globalization to prehistory and human evolution can be pursued in classes focused on every major geographical region in the world. Upper level courses span a range of topical and theoretical issues related to religion, gender, economics, colonialism, democratization, prehistoric cultures, race, behavioral evolution, and conservation, to name a few.

No prerequisites are required to enter the anthropology major. Students should see the director of undergraduate studies to apply to the major and obtain an advisor. Majors prepare a short statement about their interests and goals for the major, and then meet with their advisor. Majors and advisors collaboratively build a program of study that reflects the students' individual interests and the intellectual breadth of the field. Our goal is to provide a close and supportive advising relationship and a strong and coherent structure for the student's major.

A total of 38 credits are necessary to complete the major. Students are required to take at least one course at any level in the curriculum in each of the three subfields (cultural anthropology, archaeology, and biological anthropology). At least 5 courses must be at the 300 level or higher, and all majors must take a 400-level seminar course in their senior year (420, 458, 460, and 463 are not seminar courses and do not fill the requirement). When warranted, the advisor is free to approve up to two courses from other departments totaling up to eight credit hours to contribute to the 38-credit requirement.

The 400-level seminar serves as a space where students can synthesize their undergraduate work in anthropology. Although individual classes vary to some extent, most meet weekly, are discussion-based, and are limited to 15 students. Collaboration is encouraged between students to pursue their individual interests, and some form of student presentation is a typical part of the course.

Study abroad and off-campus study programs: The Department of Anthropology encourages students to consider a semester of study abroad or off-campus study developed as an integral part of the student's major concentration. The director of undergraduate studies serves as the anthropology study abroad advisor.

The Cornell-Nepal Study Program: The Cornell-Nepal Study Program is a joint program of Cornell University and Tribhuvan University, the national university of Nepal. Qualified juniors, seniors, and first- or second-year graduate students work with faculty from both universities to prepare for and undertake field research projects in Nepal. Students receive 15 credits per semester; students may enroll for either fall or spring semester, or for the entire year; application is through Cornell Abroad. For further information, consult David Holmberg or Kathryn March in the Department of Anthropology.

Other anthropologically relevant study abroad options, using existing Cornell Abroad and off-campus options, can be worked out in consultation with the major advisor, the anthropology study abroad advisor, and Cornell Abroad.

Honors

Honors in anthropology are awarded for excellence in the major, which includes overall GPA and completion of an honors thesis. Anthropology majors interested in the honors program should consult the chair of the Honors Committee in their junior year. To qualify for entrance into the honors program, a student must have at least a 3.0 GPA overall and 3.3 GPA in the major, and the consent of a faculty member in anthropology who will guide the honors thesis. After applying to the program and being admitted as a candidate by the Honors Committee, the student conducts research and writes a thesis. This thesis is evaluated by the faculty research advisor and two other faculty members. Honors (i.e., cum laude, magna cum laude, or summa cum laude) are awarded based on the quality of the thesis and the student's overall record. Honors candidates must start this process by consulting their major advisor about the honors program early in their junior year.

In addition, students may enroll in ANTHR 483 (fall or spring) Honors Thesis Research.

To complete the thesis, students must enroll in 491 (fall or spring) Honors Thesis Write-up. Only ANTHR 483 may count toward hours for completion of the anthropology major requirements. The credit hours for these courses are variable. Grades for these courses are given by the faculty research advisor, and they are based on performance during thesis research and writing.

Any honors candidate whose research directly involves working with human subjects must receive approval for the project from the Cornell University Committee on Human Subjects.

Special Programs and Facilities

Collections: the department has an extensive collection of archaeological and ethnological materials housed in the Anthropology Collections. A limited number of students can make arrangements to serve as interns in the Anthropology Collections. Olin Library houses some of the most extensive collections of materials on the ethnology of Southeast Asia, South Asia, East Asia, and Latin America to be found anywhere in the United States. The biological anthropology laboratory (B65 McGraw Hall) houses an extensive collection of materials for teaching purposes, including (1) human skeletal remains, (2) articulated skeletons and cranial casts of primates, and (3) casts of important fossils in the human lineage.

Independent Study: specialized individual study programs are offered in ANTHR 497, Topics in Anthropology, a course open to a limited number of juniors and seniors who have obtained permission and supervision of a faculty member. Undergraduates should note that many 600-level courses are open to them by permission of the instructor.

Colloquia: The Department of Anthropology holds colloquia almost every week of the semester on Friday at 3:30 P.M. in 215 McGraw Hall. Faculty members from Cornell and other universities participate in discussions of current research and problems in anthropology. Students are encouraged to attend.

For more complete information about the anthropology major, see the director of undergraduate studies or visit the Department of Anthropology web page (falcon.arts.cornell.edu/Anthro/).

I. Sociocultural Anthropology

Sociocultural anthropology is rooted in the precise observation and rigorous analysis of human cultural capacities and human social practices, relations, and institutions. All sociocultural anthropology involves both inquiry into the diversity of human cultures (ethnography) and comparative analysis of human social dynamics (social theory). Historically, sociocultural anthropology specialized in the study of non-western peoples, but today there are few places and domains of human activity that sociocultural anthropologists do not study. To give a few examples, sociocultural anthropologists study nuclear weapons scientists in California, the transformation of state power in Russia, and the politics of development in India. They study how television producers in Egypt contribute to nationalism, the social effects of truth commissions in Guatemala and South Africa, and the emergence of new religious

and social movements in Latin America. What distinguishes sociocultural anthropology as a field is its engagement with the full abundance of human lived experience and its integrated, comparative effort to make sense of the key processes shaping this experience. As such, sociocultural anthropology is an excellent, flexible choice of major. It teaches core critical, analytical, and expressive skills and important perspectives on human cultural creativity and social life that are widely applicable. Recently, our majors have gone into careers as diverse as academic scholarship, activism, advertising, consulting, design, film, journalism, marketing, medicine, NGO-work, and politics and government.

ANTHR 102(1400) The Comparison of Cultures @ (CA)

Spring. 3 credits. A. Riles.

Introduction to cultural anthropology through ethnographies, or the descriptive accounts of anthropologists. Through readings and lectures, students acquaint themselves with a number of cultures from several parts of the world. The cultures range in form from those of small-scale tribal societies to those of state societies. Throughout the course, students attempt to make sense of exotic cultures in their own terms. Attention is focused on variation in cultural patterns as they are expressed in social, economic, and ritual practices. In this encounter, the principles of anthropology as a comparative enterprise that pose distinct cultural systems in belief are developed. Fiction, films, and exercises supplement the formal anthropological materials.

ANTHR 103(1401) The Scope of Anthropology

Spring. 1 credit. Does not satisfy major requirement to take two broad introductory courses. Pre- or corequisite: ANTHR 101 or 102. S-U grades only. Staff.

Intended for majors or prospective majors in anthropology. Each week a different member of the faculty in anthropology at Cornell makes a presentation on the nature of his or her work within the field and discusses their interests with students. The course is meant to introduce the range of approaches found within anthropology and help students in planning future course work.

ANTHR 200(1420) Cultural Diversity and Contemporary Issues @ (SBA)

Fall. 3 credits. M. Fiskejo.

Introduces students to the meaning and significance of forms of cultural diversity for understanding contemporary issues. Drawing from films, videos, and selected readings, students are confronted with different representational forms that portray cultures in various parts of the world and they are asked to critically examine their own prejudices as they influence the perception and evaluation of cultural differences. The course approaches cultures holistically, assuming the inseparability of economies, kinship, religion, and politics, as well as interconnections and dependencies between world areas (e.g., Africa, Latin America, the West). Among the issues considered are "political correctness" and truth; nativism and ecological diversity; race, ethnicity, and sexuality; sin, religion, and war; and global process and cultural integrity.

ANTHR 205(2405) SSP: The Anthropology of Sport @ (CA)

Spring. 4 credits. Limited to 15 students. Sophomore writing seminar. S. Sangren.

Long overlooked by anthropologists, sport and recreation are increasingly recognized as important windows into culture. Sport can be approached from a number of directions—interpreted as a ritual; viewed as a spectacle of ethnic, regional, or national identity; seen as a metaphor for life; understood as a major industry. This course will consider these and other approaches to sport, encouraging students to bring their own involvements in sport to reflect not only upon sport itself, but also upon how such reflection can illuminate cultural, psychological, and political dimensions of social life. Why, for example, do we take sport (and other forms of recreation) so seriously? Why do many of us apparently invest more passion in such pursuits than to life's allegedly more serious activities? How is sport integrated into people's identities? Readings will draw from popular literature and media as well as academic writing from a variety of disciplines (psychology, sociology, history) in addition to anthropology.

This is a special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

[ANTHR 210(2410) SSP: South Asian Diaspora (also AAS 210(2110)) (CA)

Spring. 3 credits. Limited to 15 students. Sophomore writing seminar. Next offered 2008–2009. V. Munasinghe.

This is a special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.]

[ANTHR 221(2721) Anthropological Representation: Ethnographies on Latino Culture (also LSP 272(2721), AM ST 221(2721)) (CA)

Fall. 3 credits. Next offered 2007–2008. V. Santiago-Irizarry.]

[ANTHR 228(2428) Slavery and Human Trafficking # (CA)

Fall. 4 credits. Next offered 2007–2008. M. Fiskejo.]

ANTHR 230(2730) Cultures of Native North America @ # (CA)

Fall. 4 credits. B. Lambert.

Survey of the principal Eskimo and American Indian culture areas north of Mexico. Selected cultures are examined to bring out distinctive features of the economy, social organization, religion, and worldview. Although the course concentrates on traditional cultures, some lectures and readings deal with changes in native ways of life that have occurred during the period of European-Indian contact.

ANTHR 232(2432) Media, Culture, and Society (SBA)

Fall. 3 credits. D. Boyer.

Introduction to understanding the relationship between media and culture from an anthropological perspective. The primary goal is to help students develop an ethnographic awareness of the complex factors influencing mass media production, representation, and reception. The course works toward this goal by studying how media technologies effect the representation and reproduction of cultural identities, how mass media representations mediate the negotiation of national identities and moralities, how institutional situations and professional practices influence media production, and how state and market forces both create and restrict possibilities of media expression. A wide range of social and historical cases are covered by both reading and lectures. Course materials include print, visual, and electronic media. Assignments encourage students to engage the contemporary American media both analytically and critically.

ANTHR 246(2546) South Asian Religions in Practice @ (CA)

Fall. 3 credits. A. Willford.

This course offers an anthropological approach to the study of religious traditions and practices in South Asia (India, Pakistan, Sri Lanka, and Nepal). The course begins with a short survey of the major religious traditions of South Asia: Hinduism, Buddhism, Jainism, Sikhism, and Islam. We look to the development of these traditions through historical and cultural perspectives. The course then turns to the modern period, considering the impact of colonialism, nationalism, and globalization upon religious ideologies and practices. The primary focus of the course will be the ethnographic study of contemporary religious practices in the region. We examine phenomena such as ritual, pilgrimage, possession, devotionism, monasticism, asceticism, and revivalism through a series of ethnographic case studies. In so doing, we also seek to understand the impact of politics, modernity, diasporic movement, social inequality, changing gender roles and mass mediation upon these traditions and practices.

ANTHR 250(2450) The Anthropology of Food and Cuisine @ (CA)

Spring. 4 credits. J. Fajans.

You are what you eat! This course examines the way food is produced, prepared, exchanged, presented, and given meaning in cultures around the world. It examines the symbolism of specific foodstuffs. Who prepares food and how is it done? Who feeds whom and how these relations are expressed and valued? In addition to looking at these questions we analyze ideas about commensality; how food is used in public contexts for presentation or exchange, and how food is a marker of gender, class, status, ethnicity, and identity. In addition to looking specifically at food, we analyze cultural ideas about gender, the body, and identity in terms of how these cultural patterns are produced and expressed through concrete activities like eating, fasting, and special diets. In this class we stress critical and comparative thinking about subjects we tend to take for granted.

ANTHR 260(2560) Japanese Society Through Film @ (CA)

Fall. 3 credits. H. Miyazaki.

This is an anthropological introduction to Japanese society through a critical investigation of a wide range of films from Ozu Yasujiro's classic films to Miyazaki Hayao's animated films. Topics of investigation include kinship and marriage, work and workplaces, gender and sexuality, bureaucracy, crime and legal culture, nationalism and nostalgia, and technoscientific utopia.

ANTHR 303(3703) Asians in the Americas: A Comparative Perspective (also AAS 303[3030]) (CA)

Spring. 4 credits. V. Munasinghe.

The common perception of ethnicity is that it is a "natural" and an inevitable consequence of cultural difference. "Asians" overseas, in particular, have won reputations as people who cling tenaciously to their culture and refuse to assimilate into their host societies and cultures. But, who are the "Asians"? On what basis can we label "Asians" an ethnic group? Although there is a significant Asian presence in the Caribbean, the category "Asian" itself does not exist in the Caribbean. What does this say about the nature of categories that label and demarcate groups of people on the basis of alleged cultural and phenotypical characteristics? This course examines the dynamics behind group identity, namely ethnicity, by comparing and contrasting the multicultural experience of Asian populations in the Caribbean and the United States. Ethnographic case studies focus on the East Indian and Chinese experiences in the Caribbean and the Chinese, Korean, Japanese, Filipino, and Indian experiences in the United States.

ANTHR 304(3104) Questioning Kin, Queering Family (also FGSS 305[3050])Fall. 3 credits. L. Ramberg.
For description, see FGSS 305.**[ANTHR 310(3410) Nationalism and Revivalism (CA)]**Spring. 4 credits. Next offered 2008-2009.
A. Willford.]**[ANTHR 314(3514) Learning in Japan @ (SBA)]**Spring. 4 credits. Next offered 2008-2009.
H. Miyazaki.]**[ANTHR 316(3516) Power, Society, and Culture in Southeast Asia @ (CA)]**Spring. 4 credits. Next offered 2008-2009.
A. Willford.]**ANTHR 320(3420) Myth, Ritual, and Symbol (also RELST 320[3720]) @ (CA)**

Spring. 4 credits. A. Willford.

Examines how systems of thought, symbolic forms, and ritual practice are formulated and expressed in primarily non-Western societies. Focuses on anthropological interpretations of space, time, cosmology, myth, classificatory systems (e.g., color, totems, food, dress, kinship), taboos, sacrifice, witchcraft, sorcery, and rites of passage (birth, initiation, marriage, death). Examines both the roles of specialists (e.g., spirit mediums, curers, priests, ascetics) and nonspecialists in producing these cultural forms.

ANTHR 321(3421) Sex and Gender in Cross-Cultural Perspective (also ANTHR 621[6421], FGSS 321[3210], FGSS 631[6320]) @ (SBA)

Fall. 4 credits. K. March.

Introduction to the study of sex roles cross-culturally and to anthropological theories of sex and gender. Examines various aspects of the place of the sexes in social, political, economic, ideological, and biological systems to emphasize the diversity in gender and sex-role definitions around the world.

ANTHR 323(3423) Kinship and Social Organization (SBA)

Spring. 4 credits. B. Lambert.

Much of this course is a survey of forms of the family, descent groups, and marriage systems. The role of age and sex in the social structure is also considered. The last part of the course is devoted to a history of the British and American family and to its fate in utopian communities.

[ANTHR 325(3425) Anthropology of the University (SBA)]Fall. 4 credits. Next offered 2007-2008.
D. Greenwood.]**[ANTHR 327(3427) Anthropology and the Environment]**Spring. 4 credits. Next offered 2007-2008.
E. Kohn.

What is nature? Is it something objectively real or is it a culturally variable social construction? If other people do not share our ideas of nature, what does this say about concepts such as conservation or sustainable development? Because it reveals the culturally specific ways in which people engage with a world that is not fully of their making, Environmental Anthropology constitutes a privileged window onto such questions. Accordingly, we will examine these by exploring how different people—from sub-arctic hunters to autistic animal scientists—actually go about engaging with the nonhuman world. And, instead of just asking ourselves what constitutes nature, we will look to them for possible answers.]

[ANTHR 328(3428) Conflict, Dispute Resolution, and Law in Cultural Context (SBA)]Fall. 4 credits. Next offered 2007-2008.
V. Santiago-Irizarry.]**[ANTHR 335(3535) The Situation of China's Minorities: Anthropological Perspectives # @ (CA)]**Spring. 4 credits. Next offered 2007-2008.
M. Fiskesjo.]**[ANTHR 337(3537) Gender, Identity, and Exchange in Melanesia @ (SBA)]**Fall. 4 credits. Next offered 2007-2008.
J. Fajans.]**ANTHR 339(3545) Peoples and Cultures of the Himalayas (also ANTHR 739[7545]) @ (CA)**

Spring. 4 credits. K. March.

A comprehensive exploration of the peoples and cultures of the Himalayas. Ethnographic materials draw on the lifeways of populations living in the Himalayan regions of Bhutan, India, Nepal, and Tibet. Some of the cultural issues to be examined through these sources include images of the Himalayas in the West, forms of social life, ethnic diversity, political and economic history, and religious complexity.

ANTHR 342(3542) Culture and Ecology in the Globalized Pacific @ (CA)

Fall. 4 credits. J. Fajans.

This course will examine the multitude of problems which Pacific Island nations face in their attempts to participate in the modern

world. We will look at tourism, logging, mining, global warming, independence movements, and migration in Melanesia, Micronesia and Polynesia.

ANTHR 344(3554) Male and Female in Chinese Culture and Society (also FGSS 344[3440]) @ (SBA)

Fall. 4 credits. S. Sangren.

This course explores the culture of gender, sex roles, and domestic relations in late traditional and modern Chinese society. Readings and lectures range from ethnographic descriptions of the dynamics of Chinese family life, kin relations, and socialization to representations of male and female in mythologies and ritual activities. The course also considers developments subsequent to political changes in China. Although the course's analytical focus is anthropological, readings will draw from the writings of historians and political scientists as well. A premise of the course is that understanding sex and gender in China is essential to understanding Chinese culture and its most fundamental values. The course also aims to introduce students interested in Chinese to techniques of anthropological analysis.

[ANTHR 351(3451) Global Movements of Cultural Heritage @ (CA)]

Spring. 4 credits. Next offered 2008–2009.
M. Fiskesjo.]

ANTHR 353(3453) Anthropology of Colonialism (also AIS 353[3530], AM ST 353[3453]) (CA)

Fall. 4 credits. A. Simpson.

Examines the relationship between colonialism and anthropology and the ways in which the discipline has engaged this global process locally in North America. One of the aims of this course is to gain an appreciation of colonialism both as a theory of political legitimacy and as a set of governmental practices. As such, North America is re-imagined in light of the colonial project and its technologies of rule such as education, law, policy that worked to transform indigenous notions of gender, property and territory. This is done to appreciate the ways in which these forms of knowledge and practice advanced the settlement of space and place and both settled and unsettled peoples. This course is comparative in scope but is grounded within the literature from Native North America.

[ANTHR 354(3754) Amazonia and Personhood

Spring. 4 credits. Next offered 2007–2008.
E. Kohn.

Why might people feed hallucinogens to their dogs before talking to them? Why were missionaries able to easily convince Amazonians of the existence of heaven but not hell? What transformations occur when an Amazonian politician dons a feather headdress in addition to a watch and a brief case? What is it like to encounter one's dead grandfather, now transformed into a jaguar, in the forest? All of these seemingly disparate examples are intimately related to Amazonian notions of personhood. As such, they challenge our own understandings of who or what counts as a person. Accordingly, in this course we will engage Amazonian ethnography to help us think through fundamental questions associated with what it means to be a person.]

ANTHR 361(3461) Anthropology of Organizations (also ANTHR 661[6461]) (SBA)

Spring. 4 credits. D. Greenwood.

Organizations are at once economic/social/political/cultural entities and organizational studies are found in all these social science fields. Anthropology's approaches to the study of organizational behavior, cultures, and political economies approaches to organizations are holistic, integrative, multi-method and emphasize ethnographic fieldwork. This course emphasizes both the analysis of organizations and change-oriented strategies to transform organizations. Cases from manufacturing, service organizations, and educational institutions are used.

ANTHR 362(3462) Democratizing Research: Participation, Action, and Research (also ANTHR 662[6462]) (SBA)

Fall. 4 credits. D. Greenwood.

This course poses an alternative to distanced, "objectivist" social science by reviewing some of the many numerous approaches to socially engaged research. Among the approaches discussed are those centering on the pedagogy of liberation, feminism, the industrial democracy movement, and "Southern" participatory action research, action science, and participatory evaluation.

ANTHR 363(3463) Socialism (SBA)

Spring. 4 credits. J. Rigi.

The course deals with the theories and practices of socialism and post-socialism. The course has two main focuses: (1) to provide an understanding of the culture and societies of post-Socialist societies with reference to their past; (2) to investigate critically the values and horizons of the contemporary utopian movements. Socialism and liberalism are the two major grand narratives of modernity. While liberalism, in various guises, has become an unquestionable dogma and its proponents represent it as the truth of human nature, the media and academia have declared socialism dead. Such a claim on socialism is contradicted by the following facts: (1) there is a strong desire for socialism among the dispossessed classes of the former Soviet Bloc; (2) The anti-globalization movement has put on its agenda some of the major values of socialism such as equality, justice, and freedom; (3) in some parts of the world, particularly in Latin America, parties that claim to be socialists have won elections. The course investigates the relevance of socialist values for the twenty-first century. This is an interdisciplinary course that will attract students from both the social sciences and the humanities.

ANTHR 366(3466) Introduction to Anthropological Theory (CA)

This seminar course is designed for anthropology majors to give them an introduction to classical and contemporary social and anthropological theory and to help prepare them for upper-level seminars in anthropology. The seminar format emphasizes close reading and active discussion of key texts and theorists. The reading list will vary from year to year but will include consideration of influential texts and debates in 19th, 20th and 21st century anthropological theory especially as they have sought to offer conceptual and analytical tools for making sense of human social experience and cultural capacities.

[ANTHR 368(3468) Marx: An Overview of His Thought (also ANTHR 668[6468]) (SBA)]

Spring. 4 credits. Next offered 2007–2008.
J. Rigi.]

[ANTHR 377(3777) The United States (also LSP/AM ST 377[3777]) (CA)]

Fall. 4 credits. Next offered 2007–2008.
V. Santiago-Irizarry.]

ANTHR 379(3479) Culture, Language, and Thought (CA)

Spring. 4 credits. V. Santiago-Irizarry.

The relationship among culture, language, and thought has been a core concern in anthropology. Language and culture are commonly defined as processes that are public and shared yet they also operate within and upon subliminal experiential realms. In this course we shall examine how anthropologists have explored this relationship, which is engendered in the interaction between culture and language as parallel mediating devices for the constitution, interpretation, and expression of human experience.

[ANTHR 382(3482) Human Rights, Cultural Rights, and Economic Rights (SBA)]

Fall. 4 credits. Next offered 2007–2008.
J. Schoss.]

[ANTHR 384(3684) Africa in the Global Economy (also ANTHR 784[7684]) @ (SBA)]

Fall. 4 credits. Next offered 2007–2008.
J. Schoss.]

ANTHR 388(3488) Masks of Power and Strategies of Resistance and Subversion (also ANTHR 688) @ (SBA)

Fall. 4 credits. J. Rigi.

The aim of the course is to provide a broad theoretical and ethnographic orientation on various forms of power relations, strategies of resistance/subversion and the role of human agency in historical change. It will explore various concepts of power on both macro and micro levels, tracing their genealogies and looking comparatively at relevant ethnographies. Although a pillar of the course will be the comparative anthropology of state, it also will examine power relations in stateless societies. Various forms of state will be contrasted to each other on the one hand and to forms of political power in the stateless societies on the other. The course will also cover micro processes of power relation related to gender relations and body politics.

[ANTHR 403(4403) Ethnographic Field Methods (also ANTHR 603[6403]) (SBA)]

Fall. 4 credits. Next offered 2007–2008.
V. Santiago-Irizarry.]

ANTHR 406(4406) The Culture of Lives (also FGSS 406[4060]) @ (CA)

Spring. 4 credits. K. March.

This seminar will look at persons, lives, cultures, and methods in anthropological life history materials. Throughout the seminar we will attend to the evolution of interest in, forms of, and uses for life history materials in anthropology, with special attention to differences in men's and women's lives and life (re)presentations.

[ANTHR 408(4408) Gender Symbolism @ (CA)]

Spring. 4 credits. Next offered 2007-2008.
K. March.]

ANTHR 413(4513) Religion and Politics in Southeast Asia (also ASIAN 413[4413]) @ (CA)

Spring. 4 credits. A. Willford.

This course explores how religious beliefs and practices in Southeast Asia have been transformed by the combined forces of colonialism, nationalism, and globalization. By examining both diversity and resurgence in one of the world's most rapidly modernizing regions, we aim to understand the common economic, social, and political conditions that are contributing to the popularity of contemporary religious movements. At the same time, we also consider the unique ideological, theological, and cultural understandings behind different religions and movements. Through this process we also rethink conceptions of modernity.

ANTHR 420(4420) Development of Anthropological Thought (also ANTHR 720[7420]) (SBA)

Fall. 4 credits. Prerequisite: for undergraduates, two prior anthropology courses or permission of instructor.
H. Miyazaki.

Examination of the history and development of anthropological theory and practice. Focuses on the differences and continuities among the various national and historical approaches that have come to be regarded as the schools of anthropology.

[ANTHR 423(4523) Making History on the Margins: The China-SE Asia Borderlands (also ANTHR 723[7523]) # @ (HA)]

Spring. 4 credits. Next offered 2007-2008.
M. Fiskesjo.]

ANTHR 426(4426) Ideology and Social Production (also ANTHR 726[7426]) @ (SBA)

Spring. 4 credits. S. Sangren.

This course is premised on the notion that understanding social life requires understanding how social institutions are produced and sustained through time - that is to say, one must understand "society" as a process of production. By the same token, all cultures produce ideas or "representation" (e.g., about reality, nature, society, gender, authority) that serve to legitimize or validate each society's particular social arrangements. These ideologies play an important role in social production, on the one hand, and are also products of social processes, on the other. This course focuses on the linkages between ideology and social production in readings drawn from social theory and ethnographic case studies. We discuss strongly diverging views (psychoanalytic, postmodernist, poststructuralist, practice-theory, neoMarxist) on how best to conceive social processes. An integrating theme is that understanding ideology and its alienating operations is essential in developing a coherent understanding of what culture, in the last analysis, is.

ANTHR 428(4428) Deconstruction and Anthropology (CA)

Fall. 4 credits. J. Siegel.

Deconstruction offers a challenge to the idea of the study of the other and also suggests new studies. We read selected works of

Jacques Derrida in particular alongside ethnographic studies of death, witchcraft and language.

[ANTHR 429(4429) Anthropology and Psychoanalysis @ (SBA)]

Spring. 4 credits. Next offered 2007-2008.
S. Sangren.]

ANTHR 432(4432) Revolution (HA)

Fall. 4 credits. J. Siegel.

Revolution as we know it was born in France. Infected further by the Bolshevik revolution, recent work in France and England has made the idea itself interestingly suspect. It is seldom any longer a source of hope built into a program of social action and is even ridiculed as bringing only disappointment if not catastrophe. And yet if the class basis of revolution has been questioned, scholars, at least, cannot yet throw the idea into the wastebasket. We will look first at the ideas underlying the notion and then at the anti colonial revolutions, in particular the Indonesian revolution, asking whether they deserve the name or should merely be called one more subclass of social action.

ANTHR 436(4436) Tourist Encounters, Tourist Spaces (SBA)

Fall. 4 credits. J. Schoss.

The course examines tourism as a complex social setting in which a variety of encounters and exchanges occur. Using cases from Africa, Asia, the Caribbean and the US, we will examine tourism through the lenses of culture, economics and the environment. The course is organized as a seminar and will address such issues as: tourism as a strategy for economic development; eco-tourism, wildlife and environmental conservation; guided tours as competing efforts at place- and space-making; and tourism as a context for cultural destruction or revitalization.

ANTHR 437(4437) Anthropology of Development (also ANTHR 737[7437]) @ (CA)

Fall. 4 credits. M. Welker.

This course provides an anthropological perspective on international development. After reading orthodox theories of development and considering them in historical context, we will examine ethnographic accounts of postcolonial development that draw on political economy and poststructuralist traditions. The final portion of the course looks critically at the emergence of discourses such as participation, empowerment, social capital, civil society, and sustainability in mainstream development.

ANTHR 439(4439) Sovereignty and Biopolitics @ # (CA)

Spring. 4 credits. M. Fiskesjo.

This seminar course's starting point is Agamben's widely discussed ideas about "bare life" in relation to modern state sovereignty and to continuities with earlier forms of sovereignty. The course unfolds as a political-legal anthropology of sovereignty and citizenship, the exclusion of undesirables, and modern biopolitical control mechanisms. Readings will draw on classics from the anthropology and other literature on sovereignty and kingship, as well as case studies dealing with the modern Chinese state, the US, the Soviet Union, etc.

[ANTHR 440(4440) Ethnographic Approaches to Studying Professionals and Institutions (SBA)]

Spring. 4 credits. Next offered 2007-2008.
D. Boyer.]

ANTHR 442(4542) Violence, Symbolic Violence, Terror, and Trauma in South Asia and the Himalayas (also ANTHR 642[6542]) @ (CA)

Fall. 4 credits. D. Holmberg.

This working seminar will focus on violent conflict in South Asia. Key texts on social, ethnic, religious, and political violence in Sri Lanka, India, Nepal, and Pakistan as well as theoretical literature on violence, trauma, and human rights will provide the basis for general reassessment of the anthropological study of violence.

[ANTHR 444(4444) God(s) and the Market @ (CA)]

Spring. 4 credits. Next offered 2008-2009.
H. Miyazaki.]

[ANTHR 445(4445) Gift and Exchange @ (SBA)]

Spring. 4 credits. Next offered 2007-2008.
H. Miyazaki.]

ANTHR 450(4852) Europe (also ANTHR 750[7852])

Fall. 4 credits. D. Boyer, D. Greenwood, and J. Rigi.

Rotating seminar dealing with diverse topics related to the anthropology of Europe. Examples are postsocialist transitions, the ethnographic representation of transnational relations and institutions in Europe, integration in the West and disintegration in the East of Europe, immigration, regionalism, and ethnic conflict. Each year it is staffed by one of the three Europeanists in the Department of Anthropology—Dominic Boyer (post-Socialist transition), Davydd Greenwood (ethnicity and nationalism), and Jakob Rigi (post-Socialist capitalism). The course serves to balance the area curriculum of the department by adding Europe to our offerings. It also serves the Modern European Studies Concentration and the International Relations Concentration directly as an additional, much-needed offering at the upper levels. Because the topics and professors shift, students may take more than one of these seminars.

ANTHR 452(4152) Latin America: Politics and Practice of Culture (also LAT A 452[4520]) @ (CA)

Fall. 4 credits. C. Howe.

If Che Guevara were cruising across the Americas now, what would he see? Using theoretical and ethnographic material, this course travels from the Southern Cone, through the Central American isthmus, Caribbean and Mexico—troubling past distinctions between culture(s), nation states, and trajectories of people, technologies and capital. We will consider *mestizaje*, indigeneity and ethnicity; diaspora, migrations and mobility; genocide, state violence and repression; sexuality, gender and machismo; neo-colonialisms and neo-liberalisms; resistance, revolution and rights; and the commodification of life and labor. Stretching the geographic and cultural imagination, while accounting for shared and divergent histories in Latin America, this course questions how the politics and practice of culture inform our knowledge of the people of the Western hemisphere in these rapidly shifting times.

ANTHR 455(4455) Anthropology in the Real World (SBA)

Spring. 4 credits. J. Schoss.

Designed to expose students to the range of ways and fields within which practitioners employ anthropological theory, methods and perspectives. Course format includes both seminar discussions and workshop sessions with invited speakers. Both the invited speakers and the discussion topics represent different broadly defined fields in which anthropologists practice. Through class discussion and writing, students are expected to critically consider such issues as: research ethics, professional responsibility, the academic versus activist role, methodological practices, and the relationship between individual practitioners and the national, international, and organization contexts within which they work. Students produce a major research paper examining a particular field of "practical" anthropology of their interest.

ANTHR 475(4475) Governmentality, Citizenship, and Indigenous Political Theory (SBA)

Spring. 4 credits. A. Simpson.

This seminar explores the ways in which Indigenous peoples have theorized, deployed, critiqued notions of "nationhood", "citizenship" and "sovereignty" in order to articulate and claim rights to territory, to jurisdiction and to the past. Our aim is to gain an appreciation of what these critical concepts mean in the literature of anthropology, political theory and Native American Studies as well as to examine the ways in which Indigenous peoples understand and critique state practices, maintain and construct their own modes of governance and mobilize politically to achieve these ends. This course is comparative in scope, literature and cases will be drawn from various sites but will dwell largely within Native North America.

ANTHR 476(4476) Semiotics Beyond the Social (also ANTHR 776[7476]) (CA)

Fall. 4 credits. E. Kohn.

Where do signs come from? Do they exist outside of cultural, social, and linguistic worlds? Most semiotic approaches confine the study of signs to these (primarily) human realms. By doing so, they fail to understand the role that representation plays in domains beyond the human (e.g., in biology) and the various ways in which signs can be entangled with materiality. As a result we are left with a sort of ontological dualism—a study of meaning separate from that of things. If we wish to understand the proliferation of technoscientific "hybrids," material culture, ecological crises, or human evolution, such a division is untenable. Much of social theory, even when it attempts to overcome this division, is still hampered by theories of representation that implicitly reproduce it. By contrast, we will explore a more promising representational system, which grows out of the work of the philosopher Charles Peirce. Throughout his life Peirce tried to understand the continuity that lies between the material and the meaningful. To get at this continuity we will immerse ourselves in Peirce's system through close readings of carefully selected portions of his voluminous work. Our aims will be to understand Peirce's semiotics within the context of his writings on phenomenology, inference, and pragmatism and to think about how we can apply Peirce to current challenges that social theory faces.

[ANTHR 479(4479) Ethnicity and Identity Politics: An Anthropological Perspective (also AAS 479[4790]) (SBA)]

Spring. 4 credits. Next offered 2007–2008. V. Munasinghe.]

ANTHR 480(4480) Anthropology and Globalization (also ANTHR 680[6480]) (CA)

Fall. 4 credits. A. Willford.

Examines anthropological perspectives on globalization and assesses the cultural, political, and social implications of contemporary global processes. In exploring the factors that are contributing to the production of diasporic consciousness, the intensity and variety of transnational flows of culture, commodities, corporations, and people are considered to assess challenges these processes pose to the modern nation-state. Has culture been liberated from the control of the nation-state through the emergence of new cultural networks created by immigration, electronic media, tourism, and multinational corporations and organization? Or, has the acceleration of global processes within the modern world system created new tools of domination within an increasingly stratified global economy? This course addresses these and related questions using both anthropological theories of and ethnographic studies on globalization, ethnicity, diaspora, and nationalism.

II. Anthropological Archaeology

Anthropological archaeology studies the diverse societies of the past using the material traces they left behind in the archaeological record. In addition to studying artifacts, archaeologists use unique methods to study the settings in which artifacts were produced and used by examining regional settlement patterns, the structure of sites and communities, the organization of activities, and ancient symbolism and social relations. The concerns of anthropological archaeology range from basic questions about continuity and change in the past, to application of hard science methods to date sites and determine the sources of artifacts, criticism of the uses to which the past is put in contemporary society, and protection of the archaeological record. Anthropological archaeology can be distinguished from other forms of archaeology (such as Classical or Art Historical archaeology) based on its emphasis on holistically studying past cultural systems, and by the theories and approaches it shares with sociocultural and biological anthropology. There are numerous career opportunities for anthropological archaeologists, including work with museums, government agencies, and historic preservation groups in addition to academic employment. Private companies engaged in federally-mandated cultural resource management (or CRM) archaeology employ thousands of archaeologists in the United States, and similar management programs exist in many other countries.

ANTHR 100(1200) Ancient Peoples and Places (also ARKEO 100[1200]) # @ (HA)

Fall. 3 credits. F. Gleach.

Broad introduction to archaeology—the study of material remains to answer questions about the human past. Case studies highlight the variability of ancient societies and illustrate the varied methods and interpretive frameworks

archaeologists use to reconstruct them. This course can serve as a platform for both archaeology and anthropology undergraduate majors.

ANTHR 203(2200) Early People: The Archaeological and Fossil Record (also ARKEO 203[2200]) # (HA)

Spring. 3 credits. T. Volman.

Survey of the archaeological and fossil record of human evolution. Highlights contributions by researchers from a variety of disciplines as well as the discoveries that have enlivened the study of human evolution for more than a century. Stresses critical evaluation of evidence and interpretation. Demonstrations and films supplement the lectures.

ANTHR 215(2215) Stone Age Art (also ARKEO 215[2215]) # (CA)

Fall. 3 credits. T. Volman.

When did "art," however defined, appear during the human career, how was it produced and for what purposes? These are some of the questions we will investigate through a survey of the discovery, validation, analysis and interpretation of the earliest art. The course will cover a variety of finds from the Old World, including the well-known cave art of southwestern France and northern Spain, and also consider portable art and decoration. The contributions of new analytical techniques and interpretive approaches are highlighted.

ANTHR 235(2235) Archaeology of North American Indians (also ARKEO 235[2235] AIS/AM ST 235[2350]) # (HA)

Spring. 3 credits. K. Jordan.

Introductory course surveying archaeology's contributions to the study of American Indian cultural diversity and change in North America north of Mexico. Lectures and readings examine topics ranging from the debate over when the continent was first inhabited to present-day conflicts between Native Americans and archaeologists over excavation and the interpretation of the past. Reviews important archaeological sites such as Chaco Canyon, Cahokia, Lamoka Lake, and the Little Bighorn battlefield. A principal focus is on major transformations in lifeways such as the adoption of agriculture, the development of political-economic hierarchies, and the disruptions that accompanied the arrival of Europeans to the continent.

ANTHR 242(2201) Early Agriculture (also ARKEO 242[2201]) # @ (HA)

Spring. 3 credits. N. Russell.

Throughout most of the human career, people survived by hunting and gathering wild foods. The advent of food production is one of the most profound changes in (pre)history. This course examines the current evidence for the appearance and spread of agriculture (plant and animal domestication) around the world. We will consider definitions of agriculture and domestication, the conditions under which it arises, the consequences for those who adopt it, and why it has spread over most of the world.

ANTHR 317(3217) Stone Age Archaeology (also ARKEO 317[3217]) (HA)

Fall. 4 credits. T. Volman.

A survey of current approaches to the archaeological record of Stone Age peoples, from the earliest sites to those of recent times. Case studies are used to illustrate the nature of archaeological occurrences,

excavation procedures, and analytical methods. Multidisciplinary efforts to expand our knowledge of prehistoric lifeways and behaviors are a major concern of the course.

ANTHR 330(3230) Humans and Animals (also ARKEO 330[3230]) @ # (CA)

Fall. 4 credits. N. Russell.

Human-animal relationships are often seen in utilitarian, especially nutritional terms. This is especially true of the analysis of animal remains from archaeological sites. It is clear, however, that animals and meat have significance far beyond their economic value. This course focuses on these non-dietary roles of animals in human societies, past and present. We will explore a broad range of issues to gain a fuller view of human relations to animals. Domestication involves not only the technical process of controlling animal movements and breeding, but more crucially requires a fundamental shift in the human perception of animals and their relationship to them. Are pets domestic animals in the same sense as animals that are eaten, or does their owners' relationship with them more closely resemble that of hunters with their prey? Do wild animals mean the same thing to hunter-gatherers and farmers who hunt? We will also consider the importance of animals as wealth, as objects of sacrifice, as totems (metaphors for humans), and as symbols in art. Meat has undeniable dietary value, but the social aspect of consumption is also important. Meat can be used in the context of such behaviors as feasting and meat sharing to create, cement, and manipulate social relationships. In this seminar, we will examine these issues primarily (but not exclusively) in the context of the ethnography and archaeology of the Old World with which the instructor is most familiar, but students are encouraged to offer examples from their own areas of expertise. This course is open to students of archaeology, cultural anthropology, and other disciplines with an interest in human-animal relations.

ANTHR 332(3232) Politics of the Past (also ARKEO 332[3232]) @ # (HA)

Fall. 4 credits. N. Russell.

Archaeology has never operated in a vacuum. This course examines the political context of the study of the past, and the uses to which accounts of the past have been put in the present. Archaeology is often implicated in nationalist claims to territory, or claims of ethnic, racial, or religious superiority. Museum exhibits and other presentations to the public always have an agenda, consciously or otherwise. Archaeologists are increasingly required to interact with descendant communities, often in the context of postcolonial tensions. The antiquities trade and the protection of archaeological sites connects archaeologists to commercial and law enforcement sectors. We will also consider the internal politics of the practice of archaeology in various settings, including the implications of the funding sources that support archaeological work. This course is open to students of archaeology, socio-cultural anthropology, history, and other disciplines with an interest in the past.

[ANTHR 348(3248) Iroquois Archaeology (also ANTHR 648[6248], ARKEO 348/648[3248/6248], AIS 348/648[3480/6480]) # (HA)

Spring. 4 credits. Next offered 2007-2008. K. Jordan.]

ANTHR 355(3255) Ancient Mexico and Central America (also ARKEO 355[3255]) @ # (HA)

Spring. 4 credits. J. Henderson.

Survey of the cultural history of ancient Mexico and Central America, emphasizing Aztec and Maya civilizations. The use of ethnographic and historical information to enrich archaeological interpretation is a general theme. Specific topics include the emergence of settled farming life, the rise of civilization and the state, and the development of mechanisms that linked the many societies in the region into a single sphere of interaction.

[ANTHR 356(3256) Archaeology of the Andes (also ARKEO 356[3256]) @ # (HA)

Spring. 4 credits. Next offered 2008-2009. J. Henderson.]

[ANTHR 369(3269) Gender and Age in Archaeology (also ANTHR 669[6269], ARKEO 369/669[3269/6269], FGSS 370/670[3700/6700]) (SBA)

Fall. 4 credits. Next offered 2007-2008. N. Russell.

In recent years, feminist theory has begun to have an impact on archaeological thought. It is now recognized that gender is likely to have been a relevant dimension of social organization in past societies. Some archaeologists are also trying to take into account the differing interests and experiences of children, adults of reproductive age, and the elderly. This course is not limited to any period or geographical area, but ranges widely in examining how feminist theory has been applied to archaeological data and models. Considers whether it is necessary to identify women and men, adults and children in the archaeological record to take gender and age into account. Also examines the uses of archaeological data by contemporary feminists.]

[ANTHR 370(3270) Environmental Archaeology (also ANTHR 670[6270], ARKEO 370/670[3270/6270]) (PBS Supplementary List)

Fall. 4 credits. Next offered 2007-2008. T. Volman.]

[ANTHR 372(3272) Hunters and Gatherers (also ANTHR 672[6272], ARKEO 372/672[3272/6272]) # @ (SBA)

Fall. 4 credits. Next offered 2007-2008. T. Volman.]

[ANTHR 456(4256) Mesoamerican Religion, Science, and History (also ARKEO 456[4256]) @ # (CA)

Fall. 4 credits. Next offered 2007-2008. J. Henderson.]

[ANTHR 458(4258) Archaeological Analysis (also ANTHR 658[6258], ARKEO 458/658[4258/6258]) (SBA)

Spring. 4 credits. Limited to 15 students. Prerequisite: archaeology course or permission of instructor. Next offered 2007-2008. J. Henderson.]

ANTHR 460(4260) Field and Analytical Methods in Archaeology (also ARKEO 460[4260]) # (SBA)

Spring. 6 credits. K. Jordan.

This course provides a hands-on introduction to field, laboratory, and analytical methods in archaeology, focusing on historic-period American Indian sites in the Finger Lakes region. Students collectively will generate

new archaeological data, beginning the semester with study of an under-considered archaeological museum collection, and moving to survey and excavation at an archaeological site as the weather permits. Students will have an opportunity to formulate and test their own research designs in laboratory and field settings. Readings will provide an in-depth immersion into field and laboratory methodology, research design, and the culture history and material culture typologies appropriate to the site and era. In addition to laboratory and field work, students will write a 15-page term paper based on original data which can draw on museum collections, field data, documentary sources, or a combination of these sources. Most class time will be spent off-campus; transportation will be arranged by the instructor. Permission of the instructor is required.

ANTHR 462(4262) Catalhoyuk and Archaeological Practice (also ARKEO 462[4262]) @ # (HA)

Spring. 4 credits. N. Russell.

Catalhoyuk is a famous and extraordinary Neolithic site in Anatolia. It has intrinsic interest as one of the largest sites in the world at this time, for its spectacular wall paintings and other art, and for many claims of myths of origin that have been made about it (first city, first cattle domestication, first drum, first town plan, etc.). In addition to the many fascinating aspects of the site itself, it is also the nexus of many key issues in current archaeology. The current excavations not only employ a wide range of the latest scientific methods, but they aim to forge a new humanistic approach to fieldwork, putting postprocessual archaeology into practice. The site has been adopted as a sacred place by the goddess movement, and plays a role in local, national, and international politics as well as the construction of national identity. Thus it exemplifies the intersection of politics and archaeology. Both the earlier and the current project have made explicit efforts to communicate with non-archaeologists, thus engaging the issues of public archaeology. It is a key site, in the context of other work in the region, for the understanding of animal domestication, Neolithic ritual and religion, gender relations in the prehistoric Near East, and the effects of aggregated settlement. In this course, we will use the site as a focus to examine these and other issues in archaeological practice in general and the Neolithic of the Near East in particular.

[ANTHR 463(4263) Zooarchaeological Method (also ARKEO 463[4263]) (PBS Supplementary List)

Fall. 5 credits. Next offered 2007-2008. N. Russell.]

[ANTHR 464(4264) Zooarchaeological Interpretation (also ARKEO 464[4264]) (PBS Supplementary List)

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. N. Russell.]

[ANTHR 467(4267) Origins of Agriculture (also ARKEO 467[4267]) # (HA)

Spring. 4 credits. Next offered 2008-2009. N. Russell.]

[ANTHR 470(4270) Political Economy in Archaeology (also ANTHR 770[7270], ARKEO 470/770[4270/7270]) # (SBA)

Spring. 4 credits. Next offered 2008-2009. K. Jordan.]

ANTHR 472(4272) Historical Archaeology of Indigenous Peoples (also ANTHR 772(7272), ARKEO 472(772)(4272/7272), AM ST 472(4720)) # (HA)

Spring. 4 credits. K. Jordan.

This seminar uses archaeology to examine the responses of nonstate indigenous peoples across the world to European expansion and colonialism over the past 500 years. Archaeology provides a perspective on indigenous lives that both supplements and challenges document-based histories. We will assess the strengths and weaknesses of various theories of culture contact, and explore a series of archaeological case studies, using examples primarily from North America with lesser emphasis on Africa and the Pacific. The seminar provides a comparative perspective on indigenous-colonial relationships, in particular exploring the hard-fought spaces of relative autonomy created and sustained by indigenous peoples.

ANTHR 494(4294) Seminar in Archaeology: The Archaeology of Human Origins (also ARKEO 494(4294)) (HA)

Spring. 4 credits. T. Volman.

Exploration of the archaeological record associated with early modern and near-modern humans as well as their nonmodern contemporaries, such as the Neanderthals. Major issues include: what behaviors and capabilities are indicated for various populations, and how and why did these change over the course of the later Pleistocene? To what extent does the archaeological record support the "Out-of-Africa" hypothesis of a recent, African origin for all modern humans?

III. Biological Anthropology

Biological anthropology is the subfield of anthropology that explores the physical diversity, evolutionary history, and behavioral potential of our species. Consistent with anthropology more generally, biological anthropology is concerned with human variation. The distinctive perspective of this subfield is that it examines human variation within the framework of evolutionary theory. Analyses of both biology and culture, and of the interaction between the two, mark the broad boundaries of this discipline. Within that wide scope, specific areas of inquiry are diverse, including fossil studies, primate behavior, nutrition and development, sexual behavior, parental investment, molecular and population genetics, adaptation to environmental stress, disease evolution, life history analysis, and more. Some of the most pressing social issues of our time fall within the domain of biological anthropology as well as a range of professions: the controversy over evolution and intelligent design; race, gender, and genetic determinism; the control of disease; the roots of aggression; and conservation and the role of humans in ecological systems. Although the number of Anthropology courses offered in this subfield are limited, students can pursue their interests through a variety of related courses in other departments and by constructing independent study courses with specific faculty members.

[ANTHR 101(1300) Human Evolution: Genes, Behavior, and the Fossil Record (PBS Supplementary List)]

Fall. 3 credits. Lab usage and maintenance fee: \$5. A. Clark Arcadi.

This course provides a broad introduction to biological anthropology, the subfield of anthropology that explores the physical diversity, evolutionary history, and behavioral potential of our species. In addition to lectures, the class includes a weekly lab and discussion section. In sections, students have the opportunity to study our substantial collection of casts of early human fossils, as well as our comparative primate and non-primate skeletal materials. Sections also include a series of discussions on the influence of culture on biology, and of biology on culture, related to pressing social issues such as race, genetic determinism, cloning, sexual taboos, and the controversy surrounding evolution and intelligent design.

[ANTHR 211(2411) Sophomore Seminar: Nature and Culture @ (SBA)]

Spring. 4 credits. Limited to 15 students. Sophomore writing seminar. Next offered 2008–2009. S. Sangren.

Special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.]

[ANTHR 275(2750) Human Biology and Evolution (also BIOEE/NS 275(2750)) (PBS)]

Fall. 3 credits. Offered alternate years; next offered 2007–2008. J. D. Haas.]

ANTHR 305(3305) Anthropology of Parenting @ (SBA)

Spring. 4 credits. M. Small.

Human children are packets of genes that represent individual reproductive success. Like all animals, humans are selected by evolution to care for their offspring, but human infants and children require more intense parental investment than the offspring of most other species. Why is this so? Human parents are also influenced by cultural belief systems and ideology that play out in parenting styles. How do various belief systems influence parent-offspring interaction? In this course we will examine the human infant as a biologically designed organism that has co-evolved with caretakers, and then look at the various parenting styles across cultures that also mold our young. Prerequisites: Anthr 101.

[ANTHR 375(3375) Evolutionary Theory and Human Behavior (also ANTHR 675(6375)) (PBS Supplementary List)]

Spring. 4 credits. Next offered 2008–2009. M. Small.]

[ANTHR 390(3390) Primate Behavior and Ecology (PBS Supplementary List)]

Spring. 4 credits. Prerequisite: ANTHR 101 or permission of instructor. Next offered 2007–2008. A. Clark Arcadi.]

ANTHR 490(4390) Topics in Biological Anthropology

Spring. 4 credits. Prerequisites: ANTHR 101, 390, or permission of instructor.

Current topics in biological anthropology are explored. Topics change each semester. For further information, contact the professor or department office. Topic for Spring 2007: Scenarios of Hominid Evolution. M. Small. Topic for Spring 2008: Aggression and Reconciliation in Primates and Humans. A. Clark Arcadi.

IV. Honors, Field Research, and Independent Study

ANTHR 483(4980) Honors Thesis Research

Fall or spring. Credit TBA. Prerequisite: permission of Honors Committee. Staff. Independent work under the close guidance of a faculty member selected by the student.

ANTHR 491(4990) Honors Thesis Write-Up

Fall or spring. Credit TBA. Staff.

ANTHR 497(4910) Independent Study: Undergrad I

Fall or spring. Credit TBA. Prerequisite: undergraduate standing. Staff. Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

ANTHR 498(4920) Independent Study: Undergrad II

Fall or spring. Credit and Times TBA. Prerequisite: undergraduate standing. Staff. For description, see ANTHR 497, section II, "Honors and Independent Study."

Relevant courses in other departments

BIOPL 247(2470) Ethnobiology

Fall. 3 credits. D. M. Bates. For description, see BIOPL 247.

BIOPL 348(3480) The Healing Forest

Spring. 2 credits. D. M. Bates and E. Rodriguez.

BIOPL 442(4420) Current Topics in Ethnobiology

Fall. 2 credits. Limited to 12 students. Prerequisite: permission of instructor. D. Bates.

[MUSIC 104(1302) Introduction to World Music II: Asia]

Fall. 3 credits. Next offered 2007–2008. M. Hatch.]

MUSIC 245(1311) Gamelan in Indonesian History and Cultures

Fall. 3 credits. Prerequisite: permission of instructor. M. Hatch.

NS/HD 347(3471), B&SOC 347(3471) Human Growth and Development: Biological and Social Interactions

Spring. 3 credits. J. Haas and S. Robertson.

V. Graduate Seminars

The graduate program in anthropology is described in much greater detail on the anthropology department web page at falcon.arts.cornell.edu/Anthro/. The seminars

described immediately below pertain to the program in sociocultural anthropology. For information about graduate study in archaeology and biological anthropology, see the anthropology department web page.

A core set of seminars is required of all graduate students in sociocultural anthropology: ANTHR 600 and 601. ANTHR 603 is strongly recommended. These courses are open to graduate students from other related fields. This sequence, and the graduate curriculum in general, is premised on the idea that anthropology is best defined as the comparative study of human social life. This definition resists institutional pressures in the academy to distinguish social science from humanistic or cultural studies and scholarly from more worldly applications. Our most important method, ethnography, is at once scientific and humanistic; disciplinary aspirations refuse to view cultural interpretation and analytic explanation as separable values. Furthermore, theory in anthropology is directly related to practice in the world whether in relation to research or more action-oriented pursuits. Consequently, the core sequences as well as most other courses for graduate students are oriented explicitly toward subverting an ideological construction of social life as separable into cultural and social (or political-economic) domains.

ANTHR 600(6000) Proseminar: Culture and Symbol

Fall. 6 credits. D. Boyer.

Focuses on an appreciation of symbolic, expressive, and representational forms and processes both as producers and products of social activities. Through the study of symbolic anthropology, structuralism, exchange, myth and ritual, religion, gender, personhood, linguistics, semiology, etc., the course investigates how identity and meaning are linked to the practical exigencies of social life. While emphasizing aspects of the discipline generally associated with cultural anthropology, the course endeavors to set the stage for a dialectical understanding of social, political, economic, and symbolic activities as interrelated phenomena. The works of de Saussure, Levi-Strauss, Dumont, Geertz, Victor Turner, Sahlins, among others, as well as contemporary theories are given careful attention.

ANTHR 601(6010) Proseminar: Social Organization

Spring. 6 credits. J. Rigi.

Focuses on linkages between culture and social institutions, representations and practices. The nature of these linkages is debated from strongly contesting points of view in social theory (structuralist, poststructuralist, utilitarian, hermeneutic, Marxist). Unlike debates in critical theory where the form of contestation has been mainly philosophical, in anthropology, these issues have developed in ethnographic analyses. The course briefly surveys kinship theory and economic anthropology with a focus on implications for general issues in social theory. Discussion of attempts to develop dialectical syntheses around the motion of "practice" follows. The issues addressed in this section carry over into the next, colonialism and post-colonialism, in which poststructuralist readings of history are counterposed to Marxist ones. Finally, Lacanian and Marxist visions of ideology as

they relate to anthropological theory and ethnographic analysis are examined with particular emphasis on the cultural and social production of persons.

[ANTHR 603(6403) Ethnographic Field Methods (also ANTHR 403[4403])

Fall. 4 credits. Next offered 2007-2008.

V. Santiago-Irizarry.]

ANTHR 608(6508) The Political Culture of Contemporary Indonesia

Spring. 4 credits. J. Siegel.

Now that the New Order has passed it is recognized that it was not a popular regime. At the same time, it had the support of the great majority of Indonesians. An explanation of this situation raises questions of the relation of state to nation and of both to the family. These issues will be discussed in the context of nationalist thinking on the one hand and the massacres that initiated the New Order and that were central to its ideology.

ANTHR 612(6412) The Oedipus Complex in Political Perspective

Spring. 4 credits. J. Siegel.

Freud described the Oedipal complex as an element of individual psychology. And yet his discovery was based on a play in which the political and the psychological were intertwined. Without the movement out of the family that the complex resolves there is no political society. The nature of the relationship between the two is the subject of the seminar.

ANTHR 621(6421) Sex and Gender in Cross-Cultural Perspective (also ANTHR 321[3421], FGSS 321/631[3210/6310])

Fall. 4 credits. Corequisite: attendance at lectures and films of ANTHR/FGSS 321 and permission of instructor. K. March.

For description, see ANTHR 321.

ANTHR 624(6424) Ethnoracial Identity in Anthropology, Language, and Law (also LSP 624[6424])

Fall. 4 credits. V. Santiago-Irizarry.

This course examines the role that both law and language, as mutually constitutive mediating systems, occupy in constructing ethnoracial identity in the United States. We approach the law from a critical anthropological perspective, as a signifying and significant sociocultural system rather than as an abstract collection of rules, norms, and procedures, to examine how legal processes and discourses contribute to processes of cultural production and reproduction that contribute to the creation and maintenance of differential power relations. Course material draws on anthropological, linguistic, and critical race theory as well as ethnographic and legal material to guide and document our analyses.

ANTHR 629(6543) Chinese Ethnology

Fall. 4 credits. S. Sangren and M. Fiskesjo.

This seminar is designed for graduate students specializing in the study of Chinese culture and society and for advanced undergraduates who plan to pursue careers in the academic study of Chinese culture. The course focuses on close readings on theoretical and conceptual problems and issues in the study of Chinese culture and society, with an emphasis on perspectives provided by cultural anthropology. Among topics that may be included are the social production of gender, ideology in myth and ritual, the cultural uses of history, and political culture; however, the particular emphases of the seminar may

vary from year to year. Those with a reading knowledge of Chinese will be encouraged to explore Chinese sources, but use of such sources is not a requirement of the course.

ANTHR 635(7520) Southeast Asia: Readings in Special Problems

Fall or spring. Credit TBA. Staff.

Independent reading course on topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

ANTHR 641(7530) South Asia: Readings in Special Problems

Fall or spring. Credit TBA. Staff.

Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

ANTHR 642(6542) Violence, Symbolic Violence, Terror and Trauma in South Asia and the Himalayas (also ANTHR 442[4542])

Fall. 4 credits. D. Holmberg.

For description, see ANTHR 422.

ANTHR 644(6440) Research Design

Spring. 4 credits. M. Welker.

This seminar focuses on preparing a full-scale proposal for anthropological fieldwork for a dissertation. Topics include identifying of appropriate funding sources; defining a researchable problem; selecting and justifying a particular fieldwork site; situating the ethnographic case within appropriate theoretical contexts; selecting and justifying appropriate research methodologies; developing a feasible timetable for field research; ethical considerations and human subjects protection procedures; and preparing appropriate budgets. This is a writing seminar, and students will complete a proposal suitable for submission to a major funding agency in the social sciences.

[ANTHR 648(6248) Iroquois Archaeology (also ANTHR 348[3248], ARKEO 348/648[3248/6248], AIS 348/648[3480/6480])

Spring. 4 credits. Next offered 2008-2009.

K. Jordan.]

[ANTHR 650(6450) Social Studies of Economics and Finance

Fall. 4 credits. Next offered 2007-2008.

H. Miyazaki.]

[ANTHR 652(6452) Evidence: Ethnography and Historical Method

Fall. 4 credits. Next offered 2008-2009.

H. Miyazaki.]

ANTHR 655(7550) East Asia: Readings in Special Problems

Fall or spring. Credit TBA. Staff.

Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

[ANTHR 656(6256) Maya History (also ARKEO 656[6256])

Fall. 4 credits. Next offered 2008-2009.

J. Henderson.]

[ANTHR 658(6258) Archaeological Analysis (also ANTHR 458[4258], ARKEO 458/658[4258/6258])]

Spring. 4 credits. Next offered 2007–2008. J. Henderson.]

[ANTHR 660(6460) Language, Ideologies, and Practices (also LSP 660[6460])]

Spring. 4 credits. Next offered 2008–2009. V. Santiago-Irizarry.]

[ANTHR 661(6461) Anthropology of Organizations (also ANTHR 361[3461])]

Spring. 4 credits. D. Greenwood. For description, see ANTHR 361.

[ANTHR 662(6462) Democratizing Research: Participation, Action, and Research (also ANTHR 362[3462])]

Fall. 4 credits. D. J. Greenwood. For description, see ANTHR 362.

[ANTHR 667(6267) Contemporary Archaeological Theory (also ARKEO 667[6267])]

Spring. 4 credits. Prerequisite: for undergraduates, permission of instructor. Next offered 2008–2009. N. Russell.]

[ANTHR 668(6468) Marx: An Overview of His Thought (also ANTHR 368[3468])]

Spring. 4 credits. Next offered 2007–2008. J. Rigi.]

[ANTHR 669(6269) Gender and Age in Archaeology (also ANTHR 469[4269], ARKEO 469/669[4269/6269])]

Fall. 4 credits. Next offered 2007–2008. N. Russell.]

[ANTHR 670(6270) Environmental Archaeology (also ANTHR 370[3720], ARKEO 370/670[3720/6720])]

Fall. 4 credits. Next offered 2007–2008. T. Volman.]

[ANTHR 671(6371) Palaeoanthropology of South Asia (also BIOEE 671[6710], ASIAN 620)]

Fall. 3 credits. Next offered 2008–2009. K. A. R. Kennedy.]

[ANTHR 672(6272) Hunters and Gatherers (also ANTHR 372[3272], ARKEO 372/672[3272/6272])]

Fall. 4 credits. Next offered 2007–2008. T. Volman.]

[ANTHR 673(6373) Human Evolution: Concepts, History, and Theory (also BIOEE 673[6730])]

Fall. 3 credits. Prerequisite: one year introductory biology, ANTHR 101, or permission of instructor. Offered alternate years. Next offered 2008–2009. K. A. R. Kennedy.]

[ANTHR 679(6479) Technocracy: Anthropological Approaches]

Spring. 4 credits. Next offered 2007–2008. A. Riles.]

[ANTHR 680(6480) Anthropology and Globalization (also ANTHR 480[4480])]

Fall. 4 credits. A. Willford. For description, see ANTHR 480.

[ANTHR 682(6482) Perspectives on the Nation]

Fall. 4 credits. V. Munasinghe. Critical examination of the key texts that have informed our understanding of the nation and nationalism. Beginning with some of the founding texts such as Hahn Kohn's "The

Idea of Nationalism: A Study in its Origins and Backgrounds" (1994), Plamenatz's "Two Types of Nationalism" (1976), and Renan's "What is a Nation" (1939), the course moves on to more contemporary writings by Gellner, Hobsbawm and Anderson and ends with alternate analytical approaches that have been informed by the "national question" in the "Third World" such as Partha Chatterjee's "Nationalist Thought and the Colonial World." A central theme is how notions of culture, power, and history are implicated in constructions of "the Nation." Also explores the possibilities of an ethnographic approach to the nation and ask if such an analytical/methodological move may help us better grapple with the perplexing emotive dimension of nationalisms. The intersection of gender and nation also form a section of this course.

[ANTHR 688(6488) Masks of Power and Strategies of Resistance and Subversion (also ANTHR 388[3488])]

Fall. 4 credits. J. Rigi. For description, see ANTHR 388.

[ANTHR 701(7910) Independent Study: Grad I]

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff. Independent reading course in topics not covered in regularly scheduled courses. Students select a topic in consultation with the faculty member who has agreed to supervise the course work.

[ANTHR 702(7920) Independent Study: Grad II]

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff. For description, see ANTHR 701, section VII, "Graduate Seminars."

[ANTHR 703(7930) Independent Study: Grad III]

Fall or spring. Credit TBA. Prerequisite: graduate standing. Staff. For description, see ANTHR 701, section VII, "Graduate Seminars."

[ANTHR 720(7420) Development of Anthropological Thought (also ANTHR 420[4240])]

Fall. 4 credits. H. Miyazaki. For description, see ANTHR 420.

[ANTHR 723(7523) Making History on the Margins: The China-SE Asia Borderlands (also ANTHR 423[4523])]

Spring. 4 credits. Next offered 2008–2009. M. Fiskejso.]

[ANTHR 726(7426) Ideology and Social Production (also ANTHR 426[4426])]

Spring. 4 credits. S. Sangren. For description, see ANTHR 426.

[ANTHR 739(7545) Peoples and Cultures of the Himalayas (also ANTHR 339[3545])]

Spring. 4 credits. K. March. For description, see ANTHR 339.

[ANTHR 750(7852) Europe (also ANTHR 450[4582])]

Fall. 4 credits. D. Boyer, D. Greenwood, and J. Rigi. For description, see ANTHR 450.

[ANTHR 762(7262) Catalhoyuk and Archaeological Practice (also ANTHR 462[4262], ARKEO 462/762[4262/7262])]

Spring. 4 credits. N. Russell. For description, see ANTHR 462.

[ANTHR 770(7270) Political Economy in Archaeology (also ANTHR 470[4270], ARKEO 470/770[4270/7270])]

Fall. 4 credits. Next offered 2008–2009. K. Jordan.]

[ANTHR 772(7272) Historical Archaeology of Indigenous Peoples (also ANTHR 472[4272], ARKEO 472/772[4272/7272], AM ST 472[4720])]

Fall. 4 credits. K. Jordan. For description, see ANTHR 472.

[ANTHR 776(7476) Semiotics Beyond the Social (also ANTHR 476[4476])]

Fall. 4 credits. E. Kohn. For description, see ANTHR 476.

[ANTHR 784(7684) Africa in the Global Economy (also ANTHR 384[3684])]

Fall. 4 credits. Next offered 2008–2009. J. Schoss.]

ARABIC AND ARAMAIC

See "Department of Near Eastern Studies."

ARCHAEOLOGY

S. Baugher, director (Landscape Architecture), R. G. Calkins (History of Art), K. M. Clinton, director of graduate studies (Classics), J. E. Coleman (Classics), F. Gleach (Anthropology), K. L. Gleason (Landscape Architecture), J. S. Henderson (Anthropology), K. Jordan (Anthropology), K. A. R. Kennedy (Ecology and Evolutionary Biology), S. Manning (Classics), R. McNeal (Asian Studies), C. Monroe (Near Eastern Studies), D. I. Owen (Near Eastern Studies), A. Ramage (History of Art), E. Rebillard (Classics), N. Russell (Anthropology), B. S. Strauss (History), M. A. Tomlan (City and Regional Planning), T. P. Volman, director of undergraduate studies (Anthropology), J. R. Zorn (Near Eastern Studies).

Archaeology is an interdisciplinary field at Cornell, which is one of the few universities in the United States to offer a separate archaeology major and a master's degree. Program faculty members, affiliated with several departments, coordinate course offerings and help students identify opportunities for fieldwork, graduate study, and professional positions.

The Major

Prospective majors must complete ARKEO 100 or one of the basic courses as defined below before they will be admitted to the major. This course is not counted toward the major requirements.

Because the major draws on the teaching and research interests of faculty from many departments to present a broad view of the archaeological process, interested students should discuss their course of study with a participating faculty member as early as possible. In some areas of specialization, intensive language training should be coordinated with other studies as early as the freshman year.

Once admitted to the major, students must take at least 32 additional credits from the courses listed below, or from related fields

selected in consultation with a major advisor of their choosing. The courses chosen should provide exposure to a broad range of cultures known through archaeology and the methods of uncovering and interpreting them. Sixteen of the credit hours should be at the 300 level or above. At least two courses must be taken from each of the following categories: II. Anthropological Archaeology; III. Classical, Near Eastern, and Medieval Archaeology; and IV. Methodology and Technology. Only 4 credits of ARKEO 300 Individual Study or other supervised study can count toward the major.

Courses basic to the discipline of archaeology are marked with the word "Basic" after the number of credit hours. It is recommended that majors who are planning to pursue graduate studies in archaeology take at least two of the basic courses in each category. Further courses in languages and geology are also recommended.

Honors. Honors in archaeology are awarded on the basis of the quality of an honors essay and the student's overall academic record. Prospective honors students should have at least a 3.5 GPA in the major and a 3.0 grade point overall. They should consult with the director of undergraduate studies before the beginning of the senior year. The honors essay is normally prepared over two semesters in consultation with a faculty advisor during the senior year. Students enroll in ARKEO 481 Honors Thesis Research, and to complete the thesis, they enroll in ARKEO 482 Honors Thesis Writeup. Both courses are offered in the fall and spring. Only ARKEO 481 may count toward hours for completion of the archaeology major requirements. The credit hours for these courses are variable.

Fieldwork. Every student should gain some practical experience in archaeological fieldwork on a project authorized by his or her advisor. This requirement may be waived in exceptional circumstances. The Jacob and Hedwig Hirsch bequest provides support for a limited number of students to work at excavations sponsored by Cornell and other approved institutions.

The Concentration

Students in Cornell schools and colleges other than Arts and Sciences may elect a concentration in archaeology. To concentrate in archaeology, the student must complete five courses, all with a grade of C or better. The five courses must consist of either (1) ARKEO 100 and four other courses from categories II-IV (described above), at least three of which must be basic courses, or (2) five courses from categories II-IV, at least four of which must be basic courses. Concentrators are encouraged to gain some fieldwork experience. They are eligible for Hirsch Scholarships in support of fieldwork on the same basis as majors.

First-Year Writing Seminars

For course descriptions, see the First-Year Writing Program brochure.

I. Introductory Courses and Independent Study Courses

ARKEO 100(1200) Ancient Peoples and Places (also ANTHR 100[1200]) # @ (HA)

Fall. 3 credits. Basic. F. Gleach.
Broad introduction to archaeology: the study of material remains to answer questions about the human past. Case studies highlight the variability of ancient societies and illustrate the varied methods and interpretive frameworks archaeologists use to reconstruct them. This course can serve as a platform for both archaeology and anthropology undergraduate majors.

ARKEO 300(3000) Individual Study in Archaeology and Related Fields

Fall and spring. Credit TBA. Prerequisite: ARKEO 100 or permission of instructor. Students pursue topics of particular interest with the guidance of a faculty member.

ARKEO 481(4981) Honors Thesis Research

Fall or spring. 4 credits, variable.
Prerequisite: admission to honors program. Independent work under the close guidance of a faculty member.

ARKEO 482(4982) Honors Thesis Writeup

Fall or spring. 4 credits, variable.

ARKEO 600(6000) Special Topics in Archaeology

Fall and spring. 4 credits, variable.
Students pursue advanced topics of particular interest under the guidance of a faculty member(s).

ARKEO 681-682(8901-8902) Master's Thesis

681, fall; 682, spring. 4 credits, variable.
Prerequisite: master's students in archaeology. S-U grades only. Students, working individually with faculty member(s), prepare a master's thesis in archaeology.

II. Anthropological Archaeology

ARKEO 203(2200) Early People: The Archaeological and Fossil Record (also ANTHR 203[2200])

Spring. 3 credits. Basic. T. P. Volman.
For description, see ANTHR 203.

ARKEO 215(2215) Stone Age Art (also ANTHR 215[2215])

Fall. 3 credits. Basic. T. P. Volman.
For description, see ANTHR 215.

ARKEO 235(2235) Archaeology of North American Indians (also ANTHR 235[2235], AIS/AM ST 235[2350])

Spring. 3 credits. K. Jordan.
For description, see ANTHR 235.

ARKEO 242(2201) Early Agriculture (also ANTHR 242[2201])

Spring. 3 credits. Basic. N. Russell.
For description, see ANTHR 242.

ARKEO 317(3217) Stone Age Archaeology (also ANTHR 317[3217])

Fall. 4 credits. Basic. T. P. Volman.
For description, see ANTHR 317.

ARKEO 330(3230) Humans and Animals (also ANTHR 330[3230])

Fall. 4 credits. N. Russell.
For description, see ANTHR 330.

[ARKEO 348(3248) Iroquois Archaeology (also ARKEO 648[6248], ANTHR 348/648[3248/6248], AIS 348/648[3480/6480])

Fall. 4 credits. Next offered 2008-2009.
K. Jordan.]

ARKEO 355(3255) Ancient Mexico and Central America (also ANTHR 355[3255])

Spring. 4 credits. Basic. J. Henderson.
For description, see ANTHR 355.

[ARKEO 356(3256) Archaeology of the Andes (also ANTHR 356[3256]) # @ (HA)

Spring. 4 credits. Basic. Not offered 2008-2009. J. Henderson.]

[ARKEO 369(3269) Gender and Age in Archaeology (also ARKEO 669[3269], ANTHR 369/669[3269/6269], FGSS 370/670[3700/6700])

Fall. 4 credits. Next offered 2007-2008.
N. Russell.]

[ARKEO 372(3272) Hunters and Gatherers (also ARKEO 672[6272], ANTHR 372/672[3272/6272])

Fall. 4 credits. Next offered 2007-2008.
T. Volman.]

ARKEO 453(4253) The Archaeology of Slavery (also AS&RC 453[4204], ANTHR 453(4253), AM ST 453[4204])

Fall. 4 credits. W. Battle-Baptise.
For description, see AS&RC 453.

[ARKEO 456(4256) Mesoamerican Religion, Science, and History (also ANTHR 456[4256])

Fall. 4 credits. Next offered 2007-2008.
J. Henderson.]

ARKEO 462(4262) Cataloyuk and Archaeological Practice (also ARKEO 762[7262], ANTHR 462/762[4262/7262])

Spring. 4 credits. N. Russell.
For description, see ANTHR 462.

[ARKEO 470(4270) Political Economy in Archaeology (also ARKEO 770[7270], ANTHR 470/770[4270/7270])

Spring. 4 credits. Next offered 2008-2009.
K. Jordan.]

ARKEO 472(4272) Historical Archaeology of Indigenous Peoples (also ARKEO 772[7272], ANTHR 472/772[4272/7272], AM ST 472[4272])

Spring. 4 credits. K. Jordan.
For description, see ANTHR 472.

ARKEO 494(4294) Seminar in Archaeology: The Archaeology of Human Origins (also ANTHR 494[4294])

Spring. 4 credits. T. P. Volman.
For description, see ANTHR 494.

[ARKEO 648(6248) Iroquois Archaeology (also ARKEO 348[3248], ANTHR 348/648[3248/6248], AIS 348/648[3480/6480])

Fall. 4 credits. Next offered 2008-2009.
K. Jordan.]

[ARKEO 656(6256) Maya History (also ANTHR 656[6256])

Fall. 4 credits. Next offered 2008-2009.
J. Henderson.]

[ARKEO 667(6267) Contemporary Archaeological Theory (also ANTHR 667[6267])]

Spring. 4 credits. Limited to 14 students. Prerequisite: permission of instructor for undergraduates. Next offered 2008–2009. N. Russell.]

[ARKEO 669(6269) Gender and Age in Archaeology (also ARKEO 369[3269], ANTHR 369/669[3269/6269])]

Fall. 4 credits. Next offered 2007–2008. N. Russell.]

[ARKEO 770(7270) Political Economy in Archaeology (also ARKEO 470[4270], ANTHR 470/770[4270/7270])]

Spring. 4 credits. Next offered 2008–2009. K. Jordan.]

ARKEO 772(7272) Historical Archaeology of Indigenous Peoples (also ARKEO 472[4272], ANTHR 472/772[4272/7272], AM ST 472[4272])]

Fall. 4 credits. K. Jordan.
For description, see ANTHR 472.

III. Classical, Near Eastern, and Medieval Archaeology

[ARKEO 221(2726) Minoan-Mycenaean Art and Archaeology (also CLASS 221[2726], ART H 221[2226])]

Spring. 3 credits. Basic. Next offered 2007–2008. J. Coleman.
For description, see CLASS 221.]

ARKEO 260(2662) Daily Life in the Biblical World (also NES/JWST/RELST 262[2662])]

Fall. 3 credits. Basic. J. Zorn.
For description, see NES 262.

ARKEO 266(2666) Jerusalem through the Ages (also NES/JWST/RELST 266[2666])]

Spring. 3 credits. Basic. J. Zorn.
For description, see NES 266.

ARKEO 268(2668) Ancient Egyptian Civilization (also NES/JWST 268[2668])]

Fall. 3 credits. Basic. C. Monroe.
For description, see NES 268.

[ARKEO 321(3721) Mycenae and Homer (also CLASS 321[3721], ART H 321[3226])]

Fall. 4 credits. Basic. Prerequisite: at least one course in archaeology, classics, or history of art. Next offered 2008–2009. J. Coleman.
For description, see CLASS 321.]

ARKEO 334(3734) Archaeology of Slavery in the Roman World (also CLASS 334[3734])]

Spring. 4 credits. K. McDonnell.
For description, see CLASS 334.

ARKEO 364(3764) Ancient Iraq: Mesopotamian Civilization (also NES/JWST 364[3664], 664[6664])]

Fall. 4 credits. Basic. D. Owen.
For description, see NES 364.

ARKEO 380(3800) Introduction to the Arts of China (also ART H 380[3800])]

Fall. 4 credits. A. Pan.
For description, see ART H 380.

[ARKEO 434(4340) The Rise of Classical Greece (also ART H 434[4254], CLASS 434[4734])]

Spring. 4 credits. Recommended: CLASS 220 or 221 or ART H 220 or 221, or permission of instructor. Next offered 2008–2009. Staff.]

[ARKEO 435(4207) Seminar on Roman Art and Archaeology (also CLASS 435[4735])]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2008–2009. Staff.]

[ARKEO 520(5200) Seminar in Classical Archaeology (also CLASS 630[7750])]

Spring. 4 credits. Next offered 2008–2009. Staff.]

[ARKEO 629(7729) The Prehistoric Aegean (also CLASS 629[7729])]

4 credits. Prerequisite: graduate standing; advanced undergraduates by permission of instructor. Next offered 2008–2009. J. E. Coleman.]

CLASS 220(2700) Introduction to Art History: The Classical World

Fall. 4 credits. Basic. K. McDonnell.
For description, see CLASS 220.

[CLASS 237(2607) Greek Religion and Mystery Cults (also RELST 237)]

Spring. 3 credits. Basic. Next offered 2007–2008. K. Clinton.]

[CLASS 240(2725) Greek Art and Archaeology]

Spring. 3 credits. Basic. Next offered 2007–2008. J. Coleman.]

[CLASS 322(3722) Greeks and Barbarians]

Fall. 4 credits. Prerequisite: CLASS 220 or 221, or permission of instructor. Next offered 2007–2008. J. Coleman.]

[CLASS 329(3729) Greek Sculpture]

4 credits. Next offered 2008–2009. J. E. Coleman.]

[CLASS 333(3643) Greek and Roman Mystery Cults and Early Christianity (also RELST 333)]

Fall. 4 credits. Recommended: previous course in classics (civilization or language) or RELST 101. Next offered 2007–2008. K. Clinton.]

ART H 322 Arts of the Roman Empire (also CLASS 350[3740])]

Spring. 4 credits. A. Ramage.
For description, see ART H 322.

[LA 545(5450) The Parks and Fora of Imperial Rome]

Spring. 3 credits. Prerequisites: advanced standing in design field, classics, or history of art, or permission of instructor. Next offered 2007–2008. K. Gleason.]

IV. Methodology and Technology

ARKEO 228(2727) Art and Archaeology in the Ancient Mediterranean World (also ART H 227[2227], CLASS 227[2727])]

Fall. 4 credits. S. Manning.
For description, see CLASS 227.

ARKEO 256(2756) Practical Archaeology (also CLASS 256[2756])]

Spring. 3 credits. J. Coleman.
For description, see CLASS 256.

ARKEO 261(2610) Urban Archaeology (also LA/CRP 261[2610])]

Fall. 3 credits. Basic. S. Baugher.
For description, see LA 261.

ARKEO 262(2620) Laboratory in Landscape Archaeology (also LA 262[2620])]

Spring. 3 credits. S. Baugher.
For description, see LA 262.

[BIOEE 275(2750) Human Biology and Evolution (also ANTHR 275[2750], NS 275) (PBS)]

Fall. 3 credits. Offered alternate years. Next offered 2007–2008. J. D. Haas.]

ARKEO 309(3090) Introduction to Dendrochronology (also ART H 309[3250], CLASS 330[3750]) # (HA)

Spring. 4 credits. Limited to 10 students. Prerequisite: permission of instructor. Letter grades only. S. Manning.
For description, see CLASS 330.

[ARKEO 370(3270) Environmental Archaeology (also ARKEO 670[6270], ANTHR 370/670[3270/6270])]

Spring. 4 credits. Next offered 2007–2008. T. P. Volman.]

ARKEO 402(4020) Designing Archaeological Exhibits (also ARKEO 602[6020])]

Spring. Variable credit. Letter grades only. S. Baugher.

Presenting archaeology to the public has become an educational goal for many professional archaeological societies and museums. Class discussions will focus on the theories and techniques of exhibit design. To evaluate different academic approaches to exhibiting objects, the class will visit art and historical museums. Students will then design and install an archaeological exhibit using artifacts that have been catalogued in an archaeology laboratory course, ARKEO 262. These artifacts are from archaeological excavations completed over the last two years in an archaeology field methods class, ARKEO 261. The excavation was at a 19th-century site at Robert Treman State Park.

[ARKEO 437(4370) Geophysical Field Methods (also EAS 437[4370])]

Fall. 3 credits. Prerequisite: PHYS 213 or 208 or permission of instructor. Next offered 2007–2008. L. D. Brown.]

[ARKEO 458(4258) Archaeological Analysis (also ARKEO 658[6258], ANTHR 458/658[4258/6258])]

Spring. 4 credits. Limited to 15 students. Prerequisite: archaeology course or permission of instructor. Next offered 2007–2008. J. S. Henderson.]

[ARKEO 463(4263) Zooarchaeological Method (also ANTHR 463[4263]) (PBS Supplementary List)]

Fall. 5 credits. Next offered 2007–2008. N. Russell.]

[ARKEO 464(4264) Zooarchaeological Interpretation (also ANTHR 464[4264]) (PBS Supplementary List)]

Spring. 4 credits. Prerequisites: ARKEO/ANTHR 463; permission of instructor. Next offered 2007–2008. N. Russell.]

[ARKEO 467(4267) Origins of Agriculture (also ANTHR 467[4267])]

Spring. 4 credits. Next offered 2008–2009. N. Russell.]

ARKEO 600(6000) Special Topics in Archaeology

Fall and spring. 4 credits. Staff.

ARKEO 602(6020) Designing Archaeological Exhibits (also ARKEO 402[4020])

Spring. Variable credit. Letter grades only. S. Baugher.

For description, see ARKEO 402.

[ARKEO 670(6270) Environmental Archaeology (also ARKEO 370[3270], ANTHR 370/670[3270/6270])]

Fall. 4 credits. Next offered 2007-2008. T. P. Volman.]

[BIOEE 671(6710) Paleoanthropology of South Asia (also ANTHR 671[6371], ASIAN 620[6620])]

Fall. 3 credits. Next offered 2008-2009. K. A. R. Kennedy.]

V. Relevant Courses at Ithaca College

Contact Sherene Baugher in Landscape Architecture at sbb8@cornell.edu or the Ithaca College Anthropology Department at 274-1331 for further information or visit their web site at www.ithaca.edu/hs/anthro/.

Prehistory of South America. M. Malpass. Every other year.

New World Complex Societies. M. Malpass. Irregular offering.

Archaeological Methods and Techniques. M. Malpass. Irregular offering.

World Prehistory. J. Rossen. Every semester.

North American Prehistory. J. Rossen. Every year.

People, Plants, and Culture: Archaeobotany and Ethnobotany. J. Rossen. Every other year.

Seminar: Hunter-Gatherers. J. Rossen. Every other year.

Seminar: Origins of Agriculture. J. Rossen. Every other year.

Ethnoarchaeology. J. Rossen. Every other year.

Archaeological Field School.

ASIAN STUDIES

K. W. Taylor, chair (350 Rockefeller Hall, 255-5095); A. Blackburn, D. Boucher, T. Chaloeontiarana, B. de Bary, H. Diffloth, S. Divo, W. George, D. Gold, H. Huang, N. Jagacinski, Y. Katagiri, Y. Kawasaki, F. Kotas, T. LaMarre, N. Larson, J. M. Law, W. Liyanage, R. McNeal, Y. Lee-Mehta, S. Mukherjee, Y. Nakanishi-Whitman, S. Oja, J. Pandin, L. Paterson, H. Phan, B. Rusk, N. Sakai, T. Savella, K. Selden, M. Shin, M. Song, R. Sukle, K. Taylor, Q. Teng, T. Tranviet, S. Tun, D. X. Warner; Emeritus: K. Brazell, T. L. Mei, J. Wolff; Associated Faculty: A. Carlson, S. Cochran, A. Cohn, M. Hatch, R. Herring, D. Holmberg, M. Katzenstein, K. Kennedy, V. Koschmann, T. Loos, T. Lyons, K. March, S. Martin, K. McGowan, S. Mohanty, V. Munasinghe, V. Nee, A. Nussbaum, A. Pan, C. Peterson, P. Sangren, J. Siegel, J. J. Suh, E. Tagliacozzo, N. Uphoff, J. Whitman, A. Willford

The Department of Asian Studies encompasses the geographical areas of East Asia, South Asia, and Southeast Asia and offers courses in

most of the disciplines of the social sciences and the humanities. Forty-five members of the department specialize in languages, linguistics, literatures, and religions, while associated faculty throughout the university teach courses on Asia in their own disciplines, from art history and government to rural sociology. Asian Studies courses through the 400 level (ASIAN is the prefix) are taught in English and are open to all students in the university. Some of these courses may be counted toward majors in other departments; others fulfill various distribution requirements.

The Major

A student majoring in Asian Studies normally specializes in the language and culture of one country and often chooses an additional major in a traditional discipline.

A student majoring in Asian Studies receives thorough training in at least one Asian language and is required to complete two courses at the 200-level (minimum of 6 credits) or to demonstrate that minimal level of proficiency in one the Asian languages offered at Cornell. The major consists of at least 30 additional credits (which may include up to 6 credits of further language study) from courses numbered 200 and above selected by the student in consultation with his or her advisor from among the Asia content courses offered by the Department of Asian Studies and by Asia specialists in other departments.

The applicant for admission to the major in Asian Studies must have completed at least two Asia content courses, one of which may be a language course. Students must receive permission for admission to the major from the director of undergraduate studies. The student must have received a minimum grade of C in those courses and in all other courses counted toward the major.

Honors

To be eligible for honors in Asian Studies, a student must have a cumulative GPA of 3.0, and an average of 3.7 in all Asian Studies area courses, exclusive of language study only, and must successfully complete an honors essay during the senior year. Students who wish to be considered for honors should apply to the director of undergraduate studies during the second semester of their junior year. The application must include an outline of the proposed project and the endorsement of a supervisor chosen from the Asian Studies faculty. During the first semester of the senior year the student does research for the essay in conjunction with an appropriate Asian Studies course or ASIAN 401. By the end of the first semester the student must present a detailed outline of the honors essay or other appropriate written work and have it approved by the project supervisor and the director of undergraduate studies. The student is then eligible for ASIAN 402, the honors course, which entails writing the essay. At the end of the senior year, the student has an oral examination (with at least two faculty members) covering both the honors essay and the student's area of concentration.

Concentration in East Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may take a concentration in East Asian studies by completing at least 18 credits of course work in East Asian studies.

Students normally take five courses in East Asian Studies at the 200 level or above from those East Asian courses listed (China, Japan, Korea) either under Asian Studies or Asian-related courses. Of these, two courses might be Asian language courses at the 200 level or beyond. East Asian graduate courses may also be taken for the concentration, as well as East Asia-related courses with a research paper on an East Asian topic. Appropriate courses taken through Cornell Abroad in East Asia may also be counted toward the concentration. Students concentrating in East Asian Studies should select an advisor from the East Asia Program faculty for consultation on their course of study. For more information, contact the Department of Asian Studies at 350 Rockefeller Hall, 255-5095.

Concentration in South Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may take a concentration in South Asia Studies by completing at least 18 credits of course work (typically five courses) in South Asian Studies at the 200-level or above. These courses are selected from South Asia courses listed under the Department of Asian Studies, or from other Asia-related courses. Of these, two courses may be South Asian language courses at the 200 level or above. Appropriate South Asia graduate course work may be included in the concentration with consent of the instructor and the advisor. One South Asia-related course with a research paper on a South Asia subject may be included with the consent of the advisor and the director of undergraduate studies.

Students concentrating in South Asian Studies are considered members of the South Asia Program and will have an advisor from the program faculty. (This advisor will supervise a student's concentration and does not substitute for a student's major advisor.)

Concentration in Southeast Asia Studies

A candidate for the bachelor of arts or science degree at Cornell may take a concentration in Southeast Asian Studies by completing 18 credits of course work in Southeast Asian Studies. A recommended plan would include ASIAN 208 and four courses at the intermediate or advanced stage, two of which could be a Southeast Asian language. Students taking a concentration in Southeast Asian Studies are members of the Southeast Asia Program and are assigned an advisor from the program faculty. Such students are encouraged to commence work on a Southeast Asian language either at the 10-week intensive courses offered by the Southeast Asia Studies Summer Institute (SEASSI) or by studying for one semester at IKIP Malang, Indonesia; Khon Kaen University, Thailand; or Hanoi University, Vietnam. Fellowships are available for undergraduates through the Cornell Abroad Program.

Intensive Language Program (FALCON)

The FALCON Program offers intensive instruction in Japanese or Chinese. Aside from the exclusive language schools of some government agencies, FALCON is the only program in the world that offers a full year of intensive instruction beginning at the elementary level and continuing to the advanced level. FALCON is a full-time

program; the degree of intensity does not allow students to enroll simultaneously in other courses or to work, except perhaps on weekends. Students typically take the entire sequence of 160, 161, and 162, but they may take any other portion of the program if they have the necessary background as determined by a placement interview. Students often choose to apply only to the summer portion. The spring semester of the Chinese program is expected to be offered in Beijing.

Students must formally apply to the program. To guarantee course availability, applications must be received by March 1. After that, applicants are reviewed on a rolling basis and acceptance is contingent on the availability of spaces. Applications are available in 388 Rockefeller Hall or on the FALCON web site at <http://lrc.cornell.edu/falcon>.

Study Abroad

There are many strong options for study abroad in Asia. Cornell Abroad helps students plan a year or semester abroad as part of their Cornell undergraduate degree. Cornell has affiliations with several programs and institutions in Asia and sends students to those and others.

Cornell is affiliated with IUP, the Inter-University Program for Chinese Language Studies in Beijing (at Tsinghua University) and is a member of CIEE and IES, organizations sponsoring study abroad programs offering Chinese language instruction at several levels as well as courses in Chinese studies in the humanities and social sciences. Students may also study at other programs in China, Hong Kong, and Taiwan. The Chinese FALCON program includes a spring semester in Beijing.

Cornell is a member of the consortium of the Kyoto Center for Japanese Studies, an undergraduate semester or year program in Japanese language and Japanese studies. An agreement with International Christian University (ICU), outside Tokyo, permits Cornell students to attend that institution. Cornell students have attended CIEE and IES programs as well as other programs and institutions in Japan.

Cornell is a member of the American Association of Indian Studies, which offers fellowships for intensive study in India or Hindi, Bengali, and Tamil. There are study abroad options in universities or other organizations in various regions of India.

In cooperation with Tribhuvan National University of Nepal, Cornell organizes the Cornell-Nepal Study Program for undergraduate and graduate students wishing to spend a semester or year studying and conducting research in Nepal.

Students may spend a semester or year in Mongolia, Korea, Vietnam, Indonesia, Thailand, Singapore, or the Philippines or choose to study about Asia at the School of Oriental and African Studies in London, or the Faculty of Asian Studies at the Australian National University. Undergraduates should consult Cornell Abroad; graduate students should inquire at the East Asia Program, Southeast Asia Program, or South Asia Program offices.

Students may apply up to 15 credits from abroad to the major.

First-Year Writing Seminars

See John S. Knight Institute brochure for times, instructor, and descriptions.

General Education Courses

ASIAN 191(1191) Introduction to Modern Asian History (also HIST 191[1910]) @ (HA)

Fall. 4 credits. D. Ghosh and E. Tagliacozzo.

For description, see HIST 191.

ASIAN 192(1192) Introduction to World Music: Asia (also MUSIC 104[1302]) @ (CA)

Fall. 3 credits. M. Hatch.

For description, see MUSIC 104.

[ASIAN 201(2201) SSP: Buddhist Felicities @ (CA)

Spring. 4 credits. Next offered 2007–2008.

A. Blackburn.]

[ASIAN 206(2206) SSP: The Occidental Tourist: Travel Writing and Orientalism in Southeast Asia (also HIST 207/507[2070/5070]) @

Fall. 4 credits. Next offered 2007–2008.

T. Loos.]

ASIAN 208(2208) Introduction to Southeast Asia @ (CA)

Fall. 3 credits. T. Chaloeitjarana.

For anyone curious about the most diverse part of Asia; defines Southeast Asia both as the nation-states that have emerged since 1945 (Brunei, Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and Vietnam) and as a larger cultural world extending from southern China to Madagascar and Polynesia. Students find a serious, organized introduction to a variety of disciplinary and topical approaches to this region, including geography, linguistics, history, religion and ideology, anthropology, marriage and family systems, music, literacy and literature, art and architecture, agriculture, industrialization and urbanization, politics and government, warfare and diplomacy, ecological and human degradation, and business and marketing. The course teaches both basic information and different ways of interpreting that information.

ASIAN 211(2211) Introduction to Japan: Japanese Texts in History @ # (HA)

Fall. 3 credits. T. LaMarre.

Introduction to Japanese studies for nonmajors. Takes up diverse cultural artifacts and demonstrates how the meanings and readings generated by these artifacts have changed over time. Considers the eighth-century *Kojiki*, the courtly narrative *Tale of Genji*, puppet theater, Ainu autobiography, and films and comic books dealing with themes of nuclear warfare.

ASIAN 212(2212) Introduction to China @ # (CA)

Spring. 3 credits. B. Rusk.

Interdisciplinary introduction to Chinese culture especially designed for students not majoring in Asian Studies. Explores literature, history, religion, art and archaeology, and other aspects of China's rich and diverse heritage, from earliest times to the present.

[ASIAN 215(2215) Introduction to South Asian Civilization @ (HA)

Spring. 3 credits. Next offered 2007–2008.

A. Blackburn.]

ASIAN 218(2218) Introduction to Korea (also HIST 218[2800]) @ (CA)

Fall. 3 credits. Staff.

Multidisciplinary introduction to Korean history, society, and culture. The first part of the course examines sources of Korean tradition in their historical contexts. The second part, on the transition to a modern society, covers the mid-19th century to the Korean War. The last part is devoted to contemporary society.

Asia—Literature and Religion Courses

The following courses are taught entirely in English and are open to any Cornell student.

[ASIAN 219(2219) Women in South Asia (also HIST/FGSS 219[2190]) @ (HA)

Fall. 4 credits. Next offered 2008–2009.

D. Ghosh.]

ASIAN 225 Literature, Politics, and Genocide in Cambodia @ (CA)

Summer. 3 credits. G. Chigas.

Will examine various literary and political responses to the Cambodian genocide. The course posits the following: in the aftermath of genocide or mass destruction, there are two means by which survivors and bystanders attempt to confirm the even, identify the victims and the perpetrators and thereby restore a sense of justice. One of these is personal accounts or literary testimony. The other is government sanctioned legal proceedings. The course will consider how the literary and political responses to the Cambodian genocide have paralleled, complimented, and opposed each other. The course will also ask whether their overall effect contributes to or detracts from the servings of justice and process of healing for our survivors. To pursue these questions, we will read selections from novels and poetry written by Cambodian survivors side by side with accounts of political activities of the Cambodian government and the international community to bring the perpetrators of genocide to justice.

ASIAN 226(2226) Society and Religion in China (also HIST 226[2261]) @ # (HA)

Fall. T. Hinrichs.

For description, see HIST 226.

[ASIAN 228(2228) The Indian Ocean World (also HIST 228[2280]) @ (HA)

Spring. 4 credits. Limited to 15 students.

Next offered 2008–2009. E. Tagliacozzo.]

[ASIAN 236(2236) Crimes Against Humanity (also HIST 231[2310]) (HA)

Fall. 3 credits. Next offered 2008–2009.

V. Koschmann.

For description, see HIST 231.]

[ASIAN 241(2241) China's Literary Heritage: An Introduction in Translation @ # (LA)

Spring. 3 credits. Next offered 2007–2008.

D. X. Warner.]

ASIAN 245(2245) Gamelan in Indonesian History and Cultures (also MUSIC 245[1341]) @ (LA)

Fall or spring. 3 credits. Permission of instructor. M. Hatch.

For description, see MUSIC 245.

ASIAN 250(2250) Introduction to Asian Religions (also RELST 250[2250]) @ # (HA)

Spring. 3 credits. J. M. Law.
Explores religious traditions in South Asia (Pakistan, India, and Sri Lanka) and East Asia (China and Japan) including Hinduism, Buddhism (South Asian and East Asian), Sikhism, Confucianism, Daoism, and Shinto. Encounters a wide range of religious expressions as well, including myth, ritual, pilgrimage, mysticism, meditation, and other spiritual technologies.

ASIAN 257(2257) China Encounters the World (also HIST 257[2571]) @ (HA)

Fall. 3 credits. J. Chen.
For description, see HIST 257.

ASIAN 277(2277) Meditation in Indian Culture (also RELST 277[2277]) @ # (CA)

Spring. 3 credits. D. Gold.
Probes the truths behind traditional claims of the priority of internal practice in Indian traditions. Students are expected to experiment with some basic meditation practices and situate them within larger South Asian worldviews as suggested by doctrines, rituals, iconic forms, and literary texts. Grades are based on short papers.

ASIAN 279(2279) Chinese Mythology @ # (LA)

Fall. 3 credits. R. McNeal.
Students will study Chinese myths from the earliest times down to the late imperial era. Focus will be on understanding the form Chinese myths take, how they are related to religion, literature, historical accounts and intellectual trends.

[ASIAN 282(2282) Japanese Animation and New Media @ (CA)

Fall. 3 credits. Next offered 2007–2008.
T. LaMarre.]

ASIAN 294(2294) History of China in Modern Times (also HIST 294[2940]) @ (HA)

Spring. 4 credits. Staff.
For description, see HIST 294.

[ASIAN 298(2298) The U.S.–Vietnam War (also HIST 289[2890]) @ (HA)

Fall. 3 credits. Next offered 2007–2008.
K. Taylor and F. Logevall.]

[ASIAN 301(3301) Schools of Thought—Ancient China @ # (HA)

Fall. 4 credits. Next offered 2008–2009.
R. McNeal.]

[ASIAN 302(3302) Art of War in Ancient China @ # (HA)

Fall. 4 credits. Next offered 2008–2009.
R. McNeal.]

ASIAN 306(3306) Zen Buddhism @ # (KCM)

Spring. 4 credits. Limited to 15 students.
Prerequisites: any university-level course in Buddhism or ASIAN/RELST 250, or permission of instructor. Graduate students can take this course for credit and sign up for an additional credit hour for an extra session. J. M. Law.

[ASIAN 312(3312) Intellectuals in Early Modern Korea @ # (HA)

Spring. 4 credits. Prerequisite: one course on modern Japan or Korea. Next offered 2007–2008. M. Shin.]

[ASIAN 328(3328) Construction of Modern Japan (also HIST 328[3280]) @ # (HA)

Spring. 4 credits. Next offered 2007–2008.
J. V. Koschmann.]

ASIAN 335(3335) Japan from War to Prosperity @ (HA)

Fall. 3 credits.*V. Koschmann.
For description, see HIST 330.

[ASIAN 342(3342) History of Modern South Asia 1700 to 1947 (also HIST 342[3420]) @ # (HA)

Fall. 4 credits. Next offered 2008–2009.
D. Ghosh.]

[ASIAN 346(3346) Modern Japanese Politics (also GOVT 346[3463]) @ (SBA)

Spring. 4 credits. R. Weiner.]

[ASIAN 347(3347) Tantric Traditions (also RELST 349[3349]) @ # (CA)

Fall. 4 credits. Next offered 2007–2008.
D. Gold.]

[ASIAN 348(3348) Indian Devotional Poetry (also RELST 348[3348]) @ # (LA)

Spring. 4 credits. Next offered 2007–2008.
D. Gold.]

[ASIAN 351(3351) Indian Religious Worlds (also RELST 351[3351]) @ (CA)

Fall. 4 credits. D. Gold.
A study of religious traditions as lived today in the Indian subcontinent. Alongside some underlying similarities, attention will be paid to differences in piety and practice within alternative environments: urban and rural, male and female, more and less orthodox. In addition to several Hindu traditions, Sikh, Jain, Buddhist, and Muslim traditions may also be treated. Readings will include ethnologies and perhaps a novel.

[ASIAN 354(3354) Indian Buddhism (also ASIAN 654[6654], RELST 354/654[3354/6654]) @ # (HA)

Fall. 4 credits. Next offered 2007–2008.
D. Boucher.]

ASIAN 355(3355) Japanese Religions (also RELST 355[3355]) @ (CA)

Fall. 4 credits. J. M. Law.
Addresses the complexity of religion in Japanese history through a focus on the dominant ideological system commonly referred to as Shinto. Focuses on methodological issues surrounding tradition formation, invention, continuity, change, and revision and explores the Shinto tradition as follows: (1) how a central corpus of values, tastes, practices, beliefs, and concerns were formulated and how this system interacts with other religious systems; (2) the academic sources contributing to this identity; (3) views of this religious system from those actively shaping its discourse; (4) views of this religious system from those peripheralized by its ideologies; (5) personal cultivation and aesthetic taste; and (6) the relationship between this religious system and imperialism, war, and historical revisionism.

[ASIAN 359(3359) Japanese Buddhism: Texts in Context (also RELST 359[3359]) @ # (HA)

Spring. 4 credits. Next offered 2007–2008.
J. M. Law.]

ASIAN 373(3373) 20th-Century Chinese Literature @ (LA)

Fall. 4 credits. E. Gunn.
A survey of the principal works in English translation, the course introduces fiction, drama, essays, and poetry of China beginning with the Republican era and continuing up to the present in the People's Republic and Taiwan, with attention to social and political issues and literary theory.

ASIAN 374(3374) Chinese Narrative Literature @ # (LA)

Spring. 4 credits. E. Gunn.
Selected works in classical Chinese fiction are read in translation. Major novels, such as *The Dream of the Red Chamber* and *Water Margin*, are emphasized.

ASIAN 379(3379) Southeast Asian Literature in Translation @ (LA)

Fall. 4 credits. L. Paterson.
An introduction to modern Southeast Asian literature in translation, concentrating on short stories and novels from the mainland. We will begin by briefly exploring some "traditional" literary precursors, before concentrating on literature from the second half of the twentieth century. Themes include: decolonization, modernization, and the urban-rural split.

ASIAN 380(3380) Vietnamese Literature in Translation @ # (LA)

Fall. 4 credits. L. Paterson.
An introduction to Vietnamese literature in translation, concentrating on modern short stories and novels. After reading some traditional Vietnamese texts, we will examine some of the literary legacies of the Vietnam Wars, as well as themes such as the role of nationalism, changing gender roles, representations of the urban-rural divide and the effects of censorship.

ASIAN 385(3385) History of Vietnam (also HIST 388/688[3880/6880]) @ # (HA)

Fall. 4 credits. Meets concurrently with ASIAN 685. Graduate students may enroll and attend a seminar sec. K. Taylor.
Survey of Vietnamese history and culture from earliest times to the present.

ASIAN 386(3386) Southeast Asia through Film @ (CA)

Spring. 4 credits. L. Paterson.
In Western films, Southeast Asia has been portrayed as an exotic locale of romance, haunting landscapes, and "inscrutable" smiling natives. This class will explore how the countries of Southeast Asia have been portrayed in Western cinema, in juxtaposition with films produced in the countries themselves. No background in film studies or Southeast Asia is required.

[ASIAN 387(3387) Literature and Film of South Asia (also COM L 386[3860], VISST 387[3870]) @ (CA)

Fall. 4 credits. Next offered 2007–2008.
A. Banerjee.]

[ASIAN 388(3388) Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 688[6688], FGSS 658[6580]) @ (CA)

Fall. 4 credits. Next offered 2007–2008.
N. Sakai.]

ASIAN 391(3391) East Asian Martial Arts and Society and Religion (also HIST 319[3190]) @ (HA)

Fall. 4 credits. T. Hinrichs.
For description, see HIST 319.

ASIAN 392(3392) Divination Sciences in Antiquity @ # (HA)

Fall. 4 credits. C. Minkowski.

ASIAN 395(3395) Classical Indian Philosophical Systems @ # (KCM)

Spring. 4 credits. Prerequisite: some background in philosophy or in classical culture. C. Minkowski.

ASIAN 396(3396) Southeast Asian History from the 18th Century (also HIST 396[3960]) @ (HA)

Spring. 4 credits. E. Tagliacozzo.

For description, see HIST 396.

[ASIAN 397(3397) Premodern Southeast Asia (also HIST 395[3950]) @ # (HA)

Fall. 4 credits. Next offered 2007–2008.

E. Tagliacozzo.]

[ASIAN 409(4409) Archipelago: The Worlds of Indonesia (also HIST 410[4100]) @ (HA)

Spring. 4 credits. Next offered 2007–2008.

E. Tagliacozzo.]

ASIAN 410(4410) Chinese Film @ (LA)

Spring. 4 credits. E. Gunn.

Additional film viewing hours TBA. The course surveys Chinese films from the 1920s to the present and various responses to them. Films from mainland China, Hong Kong, and Taiwan are included, together with critical studies employing a variety of different critical methods.

ASIAN 411(4411) History of the Japanese Language (also LING 411[4411], JAPAN 410[4410]) @ # (HA)

Fall. 4 credits. J. Whitman.

For description, see LING 411.

ASIAN 412(4412) Linguistic Structure of Japanese (also LING 412[4412]) (KCM)

Spring. 4 credits. J. Whitman.

For description, see LING 412.

ASIAN 413(4413) Religion and Politics in Southeast Asia (also ANTHR 413[4413]) @ (CA)

Spring. 4 credits. A. Willford.

For description, see ANTHR 413.

[ASIAN 416(4416) Gender and Sexuality in Southeast Asian History (also HIST/FGSS 416[4160]) @ (CA)

Spring. 4 credits. Next offered 2008–2009.

T. Loos.]

[ASIAN 421(4421) Religious Reflections on the Human Body (also RELST 421[4421]) (KCM)

Spring. 4 credits. Prerequisites: one religious studies course or permission of instructor. Next offered 2008–2009.

J. M. Law.]

ASIAN 424(4424) Scars and Bars: Asian Trauma Memoirs @ (CA)

Spring. 4 credits. L. Paterson.

From the Chinese Cultural Revolution to Khmer Rouge Cambodia, social upheaval in Asia has given rise to a genre of trauma memoir. In this course, we will discuss how periods of societal terror are represented and remembered within these personal narratives. Through reading such accounts in conjunction with secondary scholarship, students examine various issues of representation such as intended audience, construction of memory, and framing of individual experience.

[ASIAN 425(4425) Theories of Civilization (also HIST 494[4940]) @ # (HA)

Spring. 4 credits. Next offered 2007–2008.

K. Taylor.]

[ASIAN 430(4430) Structure of Korean (also LING/KOREA 430[4430]) (KCM)

Spring. 4 credits. Next offered 2008–2009.

J. Whitman.

For description, see LING 430.]

ASIAN 436(4436) Topics in Indian Film @ (LA)

Spring. 4 credits. No knowledge of an Indian language required. D. Gold.

Treats various aspects of Indian film, with focal topics to vary from year to year. These topics include religion in Indian film, Indian art films, and the golden age of Indian film. All topics are discussed in relation to the conventions of mainstream Bollywood cinema and their social and cultural significances. Attendance at weekly screenings is required.

[ASIAN 438(4438) Monks, Texts, and Relics: Transnational Buddhism in Asia (also ASIAN 638[6638]) (CA)

Fall. 4 credits. Prerequisites: one 300-level or above course in ASIAN or RELST or permission of instructor. Next offered 2007–2008. A. Blackburn.]

[ASIAN 439(4439) Japanese Politics (also GOVT 439[4439]) @ (SBA)

Fall. 4 credits. Next offered 2007–2008.

R. Weiner.]

[ASIAN 441(4441) Mahayana Buddhism (also RELST 441[4441]) @ # (CA)

Spring. 4 credits. Next offered 2007–2008.

D. Boucher.]

ASIAN 449(4449) History and Methods of the Academic Study of Religion (also RELST 449[4449]) @ (KCM)

Spring. 4 credits. Prerequisite: one course satisfying religious studies major.

D. Boucher.

Provides advanced students in religious studies or the humanities familiarity with important methodological issues in the academic study of religion. Following a brief historical outline, major approaches to the academic study of religion currently used and discussed in religious studies are examined. Students read works from the following approaches to the study of religion: anthropology, philosophical hermeneutics, phenomenology, history of religions, the sociology of religion and critical ideological studies. In the final segment, the course focuses on recent developments in the field of religious studies.

ASIAN 452(4452) Global Martial Arts Film and Literature (also S HUM 408, COM L 408[4080])

Fall. 4 credits. Limited to 15 students.

P. Liu.

For description, see S HUM 408.

ASIAN 454(4454) Animal Philosophy and Animation (also COM L 431[4310]) (CA)

Spring. 4 credits. T. LaMarre.

ASIAN 460(4460) Indian Meditation Texts (also RELST 460[4460]) @ # (KCM)

Fall. 4 credits. No knowledge of Indian languages required. D. Gold.

Draws on approaches from literary criticism, anthropology, and religious studies to explore texts that record religious experience. Readings are drawn from classical meditation

manuals of Hinduism and Buddhism and later yogic and devotional texts.

[ASIAN 462(4462) Religion, Colonialism, and Nationalism in South and Southeast Asia (also ASIAN 662[6662]) (CA)

Spring. 4 credits. Prerequisites: one course in ASIAN, RELST, HIST, ANTHR at 300 level or above or permission of instructor. Next offered 2008–2009. A. Blackburn.]

ASIAN 468(4468) Arendt, Morisaki, Weil (also ASIAN 668[6668], COM L 438[4380], COM L 624[6240])

Fall. 4 credits. Limited to 20 students.

B. deBary.

Examines contributions to 20th-century philosophy of three women—Hannah Arendt, Morisaki Kazue, and Simone Weil. Writing from sites that spanned Paris, Berlin, New York, and Fukuoka, Japan, the three formulated ethical and political responses to twentieth century issues that were global in scope: the rise of fascism, the emergence of anti-colonial movements, communism, and the situation of stateless persons, refugees, and those abducted for forced labor. Seeks to expand our understanding of the range of twentieth century philosophical writings across linguistic, national, and gender boundaries. Students able to read Weil in French and Morisaki in Japanese are particularly welcome.

ASIAN 469(4469) Medicine and Healing in China (also HIST 496[S&TS/B&SOC]4961) @ # (HA)

Fall. 4 credits. T. Hinrichs.

For description, see HIST 496.

ASIAN 481(4481) Translation and Identities (also COM L 470[4700]) @ (KCM)

Fall. 4 credits. N. Sakai.

Problems concerning translation are explored. Although there are many different models of translation, we tend to be confined to the very narrow conception of translation as a transnational transfer of significance between two national or ethnic languages. Will survey theories of translation with a special emphasis on relationships between trans-national translation and transnational transference. Translation establishes a division of two spheres and thereby marks the limit of what can be expressed in one medium. Broadly understood, translation can take place not only between two national languages but also at a variety of boundaries within a single society. Will investigate different economics of translation by which different social and cultural identities are constructed, emphasizing the disappearance of multi-lingualism in modern nation-state and mutation of translation economies which has given rise to new ways of imagining organicist unity of the society. Historical transformation of translation and accompanying genesis of linguistic and cultural identity will be examined in reference to historical materials

[ASIAN 483(4483) Internationalism, Nationalism, and Modern Japanese Discursive Space @ (KCM)

Spring. 3 credits. Next offered 2007–2008. N. Sakai.]

ASIAN 487(4487) Vedanta Among the Shastras @ # (HA)

Spring. 4 credits. Prerequisite: primarily for seniors/majors and graduate students; background in subject; permission of instructor. C. Minkowski.

ASIAN 489(4489) Religion and Sustainability: Traditionalist Discourses in the Twenty-First Century (also RELST 489[4489])

Fall. 4 credits. Prerequisite: permission of the instructor. J. M. Law.

The natural world and the relationship of human beings and animals to it and within it is a central component of cosmogonic myths and religious ideologies in most major religious traditions. In this course, we explore how mythological, textual, ritual and ideological understandings of the relationship between human beings and the natural world inform understandings of the contemporary environmental crisis and the responsibility of human beings to address it. We will focus on cases from Hindu, Buddhist, Jain, Jewish, Christian and Muslim discourses on the natural world. We explore a variety of models of formulating the human/natural relationship: dominion, stewardship, illusion, primary sacrality and alienation. We challenge the view that grounding environmental activism in religious discourse is an effective way for environmental work to proceed and look at concrete case studies of religious communities working for, or against, environmental sustainability. Readings from primary sources in translation in the major religious traditions, and secondary sources relating to case studies.

[ASIAN 493(4493) Problems in Modern Chinese History (also HIST 493/693[4930/6930]) @ (HA)]

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. S. Cochran.]

ASIAN 496(4496) Tokugawa Literature and Thought @ # (HA)

Spring. 4 credits. N. Sakai.

Introduction (in English translation) to literary, theatrical, and intellectual works of the Tokugawa period (1600-1868). Examines the characteristics of the literary and theatrical works of the Tokugawa Japan. Students read the philosophical and philological works on the classics by writers such as Ogyu Sorai and Motoori Norinaga to discuss the issues of literary modernity.

[ASIAN 499(4499) Problems in Modern Chinese History (also HIST 499/694[4990/6940]) @ (HA)]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. Cochran.]

[ASIAN 507(5507) The Occidental Tourist (also HIST 207/507[2070/5070], ASIAN 206[2206])]

Fall. 4 credits. Next offered 2007-2008. T. Loos.]

Asia—Graduate Seminars

For complete descriptions of courses numbered 600 or above, consult the director of graduate studies.

ASIAN 602(6602) Southeast Asia Seminar: Contemporary Thailand

Spring. 4 credits. T. Chaloeontiarana.

ASIAN 603(6603) Southeast Asia Field Seminar

Fall. 4 credits. T. Chaloeontiarana.

ASIAN 604(6604) Southeast Asia Topical Seminar

Spring. 3-4 credits. T. Chaloeontiarana.

ASIAN 610(6610) SLA and the Asian Languages (also LING 609[6609])

Fall. 4 credits. Y. Shirai.

ASIAN 612(6612) Japanese Bibliography and Methodology

Fall. 1 credit. Requirement for honors students and M.A. candidates. Prerequisite: permission of instructor. F. Kotas.

ASIAN 613(6613) Southeast Asian Bibliography and Methodology

Fall. 1 credit. Requirement for honors students and M.A. candidates. Prerequisite: permission of instructor. Recommended: reading knowledge of at least one Southeast Asian language or other Asian language (especially Chinese or Japanese) and a major European language (especially French, Spanish, or Dutch). Staff.

Designed to instruct students in methods of identifying and locating resources for the study of Southeast Asia. Emphasis is on the practical aspects of using various types of bibliographical tools to identify both primary and secondary sources in Southeast Asian and Western languages. Electronic databases and online services as well as traditional printed resources are covered. Relevant arcana of library science is explained as necessary.

ASIAN 615(6615) Histories of Tokugawa Japan (also HIST 615[6150])

Fall. 4 credits. K. Hirano.

For description, see HIST 615.

[ASIAN 618(6618) Gender and Sexuality in Southeast Asian History (also ASIAN 416[4416], HIST 416/616[4160/6160])]

Spring. 4 credits. Prerequisite: graduate standing. Next offered 2008-2009. T. Loos.]

ASIAN 619(6619) Graduate Seminar: Translation in Theory (also VISST 619[6619])

Spring. 4 credits. B. de Bary.

The study of translation, often figured as invisible, brings hidden histories to light. Translation may be a practice of power, or its undoing; it may consolidate hegemonies, or decenter them. Translation is a prominent motif in philosophy and art. The course introduces theories of translation significant for post-modern, post-colonial, and visual studies.

[ASIAN 626(6626) The 18th Century and the Emergence of Literary Modernity]

Spring. 4 credits. Next offered 2007-2008. N. Sakai.]

[ASIAN 634(6634) Buddhist Studies Seminar]

Spring. 4 credits. Prepares graduate students studying Asian religions for A examination; other graduate students may enroll with permission of instructor. Next offered 2007-2008. A. Blackburn.]

[ASIAN 638(6638) Monks, Texts, and Relics: Transnational Buddhism in Asia]

Fall. 4 credits. Prerequisites: one 300-level or above course in ASIAN or RELST or permission of instructor. Next offered 2007-2008. A. Blackburn.]

[ASIAN 650(6650) Seminar in Asian Religions (also RELST 650[6650])]

Fall. 4 credits. Limited to 10 students. Prerequisite: graduate standing. Recommended: reading knowledge of modern Japanese. Next offered 2007-2008. J. M. Law.]

[ASIAN 654(6654) Indian Buddhism (also ASIAN 354[3354], RELST 354/654[3354/6654])]

Fall. 4 credits. Graduate students attend ASIAN 354 and arrange additional meetings with instructor. Next offered 2007-2008. D. Boucher.]

[ASIAN 662(6662) Religion, Colonialism, and Nationalism in South and Southeast Asia]

Fall. 4 credits. Prerequisites: one course in ASIAN, RELST, HIST, ANTHR at 300 level or above or permission of instructor. Next offered 2008-2009. A. Blackburn.]

ASIAN 667(6667) Commerce Late Imperial China (also ASIAN 467[4467])

Spring. 4 credits. B. Rusk.

Graduate seminar (open to undergraduates by permission of instructor) focusing on the relationship between commercialization and culture from Song to Qing (10th to 19th centuries). Was there a commercial revolution in premodern China (or more than one)? Was there capitalism? Can Chinese culture be said to help or hinder commerce, or to have been changed by it? Should art and literature be interpreted through the lens of economic relations? These questions have been raised by Western scholars since Hegel and Marx, but were of concern to Late Imperial observers as well. Through readings in English and in English translation, this seminar traces the development of such arguments in various genres and fields of study.

ASIAN 668(6668) Arendt, Morisaki, Weil (also ASIAN 468[4468], COM L 438[4380], COM L 624[6240])

Fall. 4 credits. B. deBary.

For description, see ASIAN 468.

[ASIAN 671(6671) Paleoanthropology of South Asia (also BIOEE 671[6710], ANTHR 671[6371])]

Fall. 3 credits. Limited to 15 students. Next offered 2008-2009. K. A. R. Kennedy.]

[ASIAN 676(6676) Southeast Asia Reading Seminar: The Early Thai Novels]

Fall. 4 credits. Next offered 2007-2008. T. Chaloeontiarana.]

ASIAN 680(6680) Vietnamese Literature in Translation (also ASIAN 380 [3380])

Fall. 4 credits. L. Paterson.

For description, see ASIAN 380.

ASIAN 685(6685) History of Vietnam (also HIST 388/688[3880/6880] and ASIAN 385[3385])

Fall. 4 credits. K. Taylor.

For description, see ASIAN 385.

[ASIAN 688(6688) Theorizing Gender and Race in Asian Histories and Literature (also ASIAN 388[3388], FGSS 358/658[3580/6580])]

Fall. 4 credits. Prerequisite: reading knowledge of Japanese. Next offered 2007-2008. N. Sakai.]

[ASIAN 693(6693) Problems in Modern Chinese History (also HIST 493/693[4930/6930])]

Fall. 4 credits. Next offered 2007-2008. S. Cochran.]

[ASIAN 694(6694) Problems in Modern Chinese History (also HIST 499/694(4990/6940))]
Spring. 4 credits. Next offered 2007–2008. S. Cochran.]

ASIAN 696(6696) Modern Southeast Asia: Graduate Proseminar (also HIST 396/696(3960/6960))
Spring. 4 credits. E. Tagliocozzo.
For description, see HIST 396.

[ASIAN 698(6698) Seminar in Japanese Thought (also HIST 698(6980))]
Fall. 4 credits. Limited to 15 graduate students. Prerequisite: reading knowledge of Japanese. V. Koschmann.]

ASIAN 701-702(7701-7702) Seminar in East Asian Literature
701, fall; 702, spring. 1–4 credits. Staff.

ASIAN 703-704(7703-7704) Directed Research
703, fall or spring; 704, fall or spring. 1–4 credits. Staff.

ASIAN 899(8899) Master's Thesis Research
Fall, spring. 2–4 credits. Staff.

ASIAN 999(9999) Doctoral Dissertation Research
Fall, spring. 2–4 credits. Staff.

Honors Courses

ASIAN 401(4401) Asian Studies Honors Course

Fall or spring. 4 credits. Prerequisite: senior standing; admission to honors program. Staff.

Supervised reading and research on the problem selected for honors work.

ASIAN 402(4402) Asian Studies Honors: Senior Essay

Fall or spring. 4 credits. Prerequisite: admission to honors program. Staff.

The student, under faculty direction, prepares an honors essay.

ASIAN 403-404(4403-4404) Asian Studies Supervised Reading

Fall, spring, or both. 1–4 credits. Prerequisite: permission of instructor; majors and other qualified students.

Intensive reading under the direction of a member of the staff.

Bengali

BENGL 121-122(1121-1122) Elementary Bengali

121, fall; 122, spring. 4 credits each semester. Prerequisite: for BENGL 122, BENGL 121 or examination. S. Mukherjee.

Enables students to read and comprehend basic Bengali texts as well as speak and write in the language. The introduction of the Bengali script is complemented by detailed instruction in grammar.

BENGL 201-202(2201-2202) Intermediate Reading and Conversation @

201, fall; 202, spring. 4 credits each semester. *BENGL 201 satisfies Option 1.* Prerequisites: for BENGL 201, BENGL 122 or examination; for BENGL 202, BENGL 201 or examination. S. Mukherjee.

Building on skills mastered at the elementary level and continuing grammar instruction, this course is designed to advance students' oral competence and enhance comprehension

skills through reading and listening. Its aim is to enable students to interact productively when immersed in the environment and/or to carry out research in primary material in the language.

BENGL 203-204(2203-2204) Intermediate Bengali Composition and Conversation

203, fall; 204, spring. 2 credits each semester. Prerequisites: for BENGL 203, BENGL 122 or examination; for BENGL 204, BENGL 203 or examination. S. Mukherjee.

Complements the verbal skills developed in BENGL 201–202 by improving writing skills.

BENGL 300(3000) Directed Studies

Fall or spring. 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. S. Mukherjee.

Taught on a specialized basis to address particular student needs.

BENGL 303-304(3303-3304) Bengali Literature I, II @

303, fall; 304, spring. 4 credits each semester. Prerequisites: BENGL 203–204 or equivalent. *BENGL 303 satisfies Option 1.* S. Mukherjee.

Designed in consultation with students to address their specific needs. Through reading literary texts organized around social and cultural theme-clusters, the course aims to refine the students' breadth of understanding and develop literary/critical skills.

Burmese

Note: Contact S. Tun in 405 Morrill Hall before classes begin for placement or other testing and organizational information.

BURM 103-104(1103-1104) Burmese Conversation Practice

103, fall; 104, spring. 2 credits each semester. Prerequisites: for BURM 104, BURM 103 and 121. May not be taken alone; must be taken simultaneously with BURM 121–122. S. Tun.

Additional drills, practice, and extension of materials covered in BURM 121 and 122. These courses are designed to be attended simultaneously with BURM 121–122 respectively, allowing students to obtain qualification within a year.

BURM 121-122(1121-1122) Elementary Burmese

121, fall; 122, spring. 4 credits each semester. Prerequisites: for BURM 122, BURM 121. May be taken alone or simultaneously with BURM 103–104. S. Tun.

A thorough grounding is given in all language skills: listening, speaking, reading, and writing.

BURM 123(1123) Continuing Burmese

Fall. 4 credits. Prerequisite: BURM 122. S. Tun.

Continuing instruction in conversational and reading skills to prepare students for 200-level courses.

BURM 201-202(2201-2202) Intermediate Burmese Reading @

201, fall or spring; 202, fall or spring. 3 credits each semester. *BURM 201 satisfies Option 1.* Prerequisites: for BURM 201, BURM 123; for BURM 202, BURM 201. S. Tun.

Continuing instruction in Burmese, with emphasis on consolidating and extending

conversational skills, and on extending reading ability.

BURM 300(3000) Directed Studies

Fall or spring. 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. S. Tun.

Taught on a specialized basis to address particular student needs.

BURM 301-302(3301-3302) Advanced Burmese @

301, fall or spring; 302, fall or spring. 3 credits each semester. Prerequisites: for BURM 301, BURM 202 or permission of instructor; for BURM 302, BURM 301.

BURM 301 satisfies Option 1. S. Tun.

Continuing instruction on conversational and literary skills, but with special emphasis on reading. Students encounter various genres and styles of written Burmese. Readings include articles on current events, and either several short stories or a novel. Focus is on developing reading skills, particularly on vocabulary development, consolidating and expanding grammar, and appreciating stylistic and cultural differences.

BURM 303-304(3303-3304) Advanced Burmese II @

303, fall or spring; 304, fall or spring. 3 credits each semester. Prerequisite: for BURM 303, BURM 202 or permission of instructor; for BURM 304, BURM 303.

BURM 303 satisfies Option 1. S. Tun.

For students who have good conversational ability in Burmese and some familiarity with Burmese culture, but who need to strengthen reading skills and further enrich their vocabulary. Students, in consultation with the instructor, are able to select reading materials. There is also an opportunity for those who need it, to strengthen listening skills, through the study of current films, TV, and radio programs in Burmese.

BURM 401-402(4401-4402) Directed Individual Study

401, fall; 402, spring. 2–4 credits, variable, each semester. Prerequisite: permission of instructor. S. Tun.

Designed to accommodate the needs of advanced or specialized students, and faculty interests. Topics of reading and discussion are selected on the basis of student need.

Cambodian

See "Khmer."

Chinese

Note: Testing for placement, except for those with near-native abilities (particularly those schooled in a Chinese setting up until the age of about 12), takes place in registration week, before classes begin. Time and place will be posted at <http://Lrc.cornell.edu/asian/> programs/placement and on the bulletin board outside 350 Rockefeller Hall. Students with some Chinese schooling who want to obtain 3 credits for their proficiency will be tested at the beginning of the second week of classes. Again, the time and place will be announced.

CHIN 101-102(1101-1102) Elementary Standard Chinese (Mandarin)

101, fall; 102, spring, 6 credits each semester. Limited to 10-12 students per sec. Prerequisite: for CHIN 102, CHIN 101 or permission of instructor. Students must enroll in lec and one sec. Because of limited sec size, students missing first two class meetings without university excuse are dropped so others may register. No students added after second week of classes. Letter grades assigned unless student receives exceptional permission from course coordinator for S-U. S. Divo and staff.

For beginners only, providing a thorough grounding in conversational and reading skills. Students with some facility in the spoken language (because Chinese is spoken at home) but who do not read characters should take 109-110. Students who read Chinese, but who speak "dialects," such as Cantonese or Amoy, should enroll in CHIN 215.

CHIN 109-110(1109-1110) Beginning Reading and Writing (Standard Chinese)

109, fall; 110, spring, 4 credits each semester. Prerequisite: permission of instructor. Students who complete CHIN 110 normally continue with CHIN 209 and 210. Because of high demand, students missing first two meetings without university excuse are dropped so others may register. Y. Lee Mehta.

Intended primarily for students who speak some Chinese (e.g., at home), but who have had little or no formal training. The focus is on characters, reading comprehension, basic composition, standard grammar, and reading aloud with standard Chinese (Mandarin) pronunciation.

CHIN 111-112(1111-1112) Elementary Cantonese I and II

111, fall; 112, spring, 4 credits each semester. Prerequisite: for CHIN 111, permission of instructor; for CHIN 112, CHIN 111 or equivalent. Students with Mandarin background should enroll in CHIN 112. H. Huang.

CHIN 111 is for beginners with no or very limited Chinese/Cantonese language background from heritage or previous formal training. CHIN 111/112 gives comprehensive training in oral/aural reading/writing in Cantonese spoken and used in Canton and Hong Kong. CHIN 111 focuses more on oral and aural skills training than on reading and writing Cantonese characters. CHIN 112 covers more training on reading and writing Cantonese characters than does CHIN 111. For more details, see <http://lrc.cornell.edu/asian/courses/ch/chin111>.

CHIN 201-202(2201-2202) Intermediate Standard Chinese (Mandarin) @

201, fall or summer; 202, spring or summer, 4 credits each semester. *CHIN 201 satisfies Option 1.* Prerequisites: for CHIN 201, CHIN 102 with grade of C+ or above or equivalent; for CHIN 202, CHIN 201 or equivalent. Q. Teng and staff.

Continuing instruction in written and spoken Chinese with particular emphasis on consolidating basic conversational skills and improving reading confidence and ability.

CHIN 209-210(2209-2210) Intermediate Reading and Writing @

209, fall; 210, spring, 4 credits each semester. *CHIN 209 satisfies Option 1.* Prerequisites: for CHIN 209, CHIN 110 or equivalent; CHIN 210, CHIN 209. After completing 210, students may take only 400-level courses in Chinese. Staff.

Continuing focus on reading and writing for students with spoken background in standard Chinese; introduction of personal letter writing and other types of composition.

CHIN 211-212(2211-2212) Intermediate Cantonese I and II @

211, fall; 212, spring, 4 credits each semester. *CHIN 211 satisfies Option 1.* Prerequisites: for 211, permission of instructor and completion of CHIN 112 or elementary conversational skills in Cantonese from heritage but very limited formal training in Cantonese character reading and writing. For 212, CHIN 211 or equivalent. H. Huang.

Gives comprehensive training in oral and written Cantonese at a higher level than CHIN 111-112. Oral training covers conversational Cantonese expression on daily life topics. Written training includes reading aloud and writing Cantonese characters as well as simple composition writing skills in Chinese characters. For more details, see <http://lrc.cornell.edu/asian/courses/ch/chin211>.

CHIN 213-214(2213-2214) High Intermediate Cantonese I and II @

213, fall; 214, spring, 4 credits each semester. *CHIN 213 satisfies Option 1.* Prerequisite: for 213, basic oral/aural skill in Cantonese and intention to continue the learning of Cantonese reading and writing, or completion of CHIN 212; Prerequisite for 214: 213 or equivalent. H. Huang.

CHIN 213: A course primarily for students who have acquired basic oral/aural skill in Cantonese and have the interest to start or continue learning Cantonese reading and writing. Focuses more on basic training in sentences, paragraphs or short essays, and writing in Cantonese; CHIN 214: A course primarily for students who have the interest to raise their written Cantonese to a higher level. Enlarges the range of training in Cantonese reading and writing to essay and research writing.

CHIN 215(2215) Mandarin for Cantonese Speakers @

Fall, 4 credits. *Satisfies Option 1.* Limited to 15 students. Prerequisite: advanced Cantonese with native-like reading and writing ability. Staff.

Works on standard Chinese pronunciation and differences in vocabulary and grammar between Cantonese and Mandarin.

CHIN 300(3000) Directed Studies

Fall or spring, 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

CHIN 301-302(3301-3302) High Intermediate Chinese @

301, fall; 302, spring, 4 credits each semester. *CHIN 301 satisfies Option 1.* Prerequisites: for CHIN 301, CHIN 202 or equivalent; for CHIN 302, CHIN 301. Y. Lee-Mehta.

Continuing instruction in spoken Chinese and in various genres and styles of written Chinese.

CHIN 304(3304) Advanced Mandarin Conversation

Spring, 1 credit. Limited to 10 students. Prerequisite: CHIN 202, 215, 301, or permission of instructor. Staff.

Offers a wonderful speaking and listening opportunity to students who wish to maintain/increase their language proficiency by engaging in guided discussions of various topics.

CHIN 309/310 (3309/3310) Business Chinese in Cultural Context (also CHIN 509/510)

Fall, spring, 4 credits each semester.

CHIN 309 satisfies Option 1. Prerequisite: permission of instructor only. Z. Chen.

A two-semester sequence for those who have studied Mandarin to the advanced level (or equivalent). Aims to enhance students' language skills in the business context and to promote understanding of the macro and micro business environment and culture in China. An emphasis on case study is adopted along with task-based language teaching. Based on 10 real cases from real companies. Six are multinational companies that have successfully operated in China by adapting their strategies to the special needs of the Chinese market; four are Chinese companies that have pursued a larger presence in domestic and global markets. Goals are to equip students with language skills, cultural awareness, and software literacy necessary to do business in China. Class will be conducted in Chinese.

CHIN 411-412(4411-4412) Advanced Chinese: Fiction, Reportage, Current Events @

411, fall; 412, spring, 4 credits each semester. Prerequisites: for CHIN 411, CHIN 302 or equivalent; for CHIN 412, CHIN 411 and permission of instructor. Q. Teng.

Reading, discussion, and composition at advanced levels.

CHIN 425(4425) Special Topics: Historical Documents on Modern China (also HIST 465/665, CHIN 625)@

Fall, 4 credits. Prerequisite: permission of instructor. Z. Chen.

CHIN 509/510(5509/5510) Business Chinese in Cultural Context

Fall, spring, 4 credits each semester. Z. Chen.

For description, see CHIN 309/310.

CHIN 625(6625) Special Topics: Historical Documents on Modern China (also CHIN 425, HIST 465/665)

Fall, 4 credits. Prerequisite: permission of instructor. Z. Chen.

For description, see CHIN 425.

Chinese FALCON (Full-year Asian Language CONcentration)

For full information, brochures, etc., see the FALCON Program coordinator in 388 Rockefeller Hall or e-mail: falcon@cornell.edu or <http://lrc.cornell.edu/falcon>

FALCON is designed to help students develop "copability" in Chinese by bringing them to the level where they can make progress on their own even with no further instruction.

The full-year program provides over 1,800 hours of language exposure—which exceeds even the exposure that students living in China typically receive. This allows students to develop levels of fluency, accuracy, and control that are not achieved in other academic settings. By taking the entire full-year sequence, students can complete as much Chinese in one calendar year as they would complete in three or more years of regular study at most academic institutions. The full-year sequence is Chinese 160 (summer), 161 (fall), and 162 (spring). Students typically take the entire sequence, but they may take any other portion of the program if they have the necessary background as determined by a placement interview. Students often choose to apply only to the summer portion. The spring semester of the Chinese program is expected to be offered in Beijing at Tsinghua University. In the summer and fall, three small interactive classes per day are conducted entirely in Chinese, and one lecture is conducted in both Chinese in English. In the spring semester, all four classes are conducted entirely in Chinese. In the summer and fall, students are also required to spend two one-hour sessions per day in the language lab. Additional preparation time in the language lab of up to three hours is necessary in the evenings.

Students must formally apply to the program. To guarantee course availability, applications must be received by March 1. After that, applicants are reviewed on a rolling basis and acceptance is contingent on the availability of spaces. Applications are available in 388 Rockefeller Hall or at <http://lrc.cornell.edu/falcon>.

CHIN 160(160) Introductory Intensive Mandarin

Summer only. 8 credits. Students who complete this course with grade of at least B are normally eligible to enroll in CHIN 201. S. Divo and staff.

Introduction to spoken and written Mandarin. Lectures on linguistic and cultural matters, intensive practice with native speakers, and laboratory work.

CHIN 161-162(161-162) Intensive Mandarin @

161, fall; 162, spring. 16 credits each semester. *CHIN 161 satisfies Option 1.* Prerequisites: for CHIN 161, CHIN 160 or equivalent or permission of instructor; for CHIN 162, CHIN 161 or placement by FALCON staff before beginning of spring semester. Students must apply formally to program; open to all Cornell students and students from other institutions. S. Divo and staff.

Work on spoken and written Chinese from an intermediate to an advanced level. This is a full-time program and full academic load; the demands of the program do not normally permit students to take other courses simultaneously. With a sequence of 160, 161, and 162, in only one calendar year a student can complete as much Chinese as would be gained in three or more years of regular study at most academic institutions. This course sequence also serves to fulfill the language requirement for the M.A. in Asian Studies and the joint M.B.A./M.A. in Asian Studies. CHIN 162 is scheduled to be held in Beijing, People's Republic of China. For more information and application forms, please contact the FALCON Program office.

Literature in Chinese

CHLIT 213-214(2213-2214) Introduction to Classical Chinese @ # (LA)

213, fall; 214, spring. 3 credits each semester. *CHLIT 213-214 does NOT satisfy Option 1.* Prerequisite: for 213, qualification in Chinese or permission of instructor; for 214, 213 or permission of instructor. May be taken concurrently with CHIN 101-102, 201-202, 301-302. Open to students who have studied at least two years of any language that employs Chinese writing system (e.g., Mandarin, Cantonese, Japanese). Staff.

Two-part introductory course. Students learn the fundamental grammar and vocabulary of classical Chinese by analyzing and translating short passages.

CHLIT 300(3300) Reading from the Early Masters @ # (HA)

Fall. 4 credits. Prerequisites: CHLIT 213-214 or permission of instructor. R. McNeal. Students read and discuss several passages from early classical texts, including the Confucian Analects, the Mozi, the Guanzi, and others. Attention is paid to grammar, historical context, and methodology.

CHLIT 307(3307) Readings in Classical Chinese Literature @ # (LA)

Spring. 4 credits. Prerequisite: CHLIT 214 or permission of instructor. D. X. Warner and B. Rusk.

This course surveys selected texts—primarily in prose—from the ancient and medieval periods. Through close reading, students expand their knowledge of the diction, syntax, and various genres, themes, and literary styles that were foundational for the later Chinese literary tradition.

ASIAN 352(3352) Technologies of Knowledge

Fall. 3 credits. B. Rusk. Undergraduate seminar on the role of information technologies in the history of culture and society, using Chinese and Western examples as points of comparison and the writing, print and electronic communications as tests of hypotheses about the significance of technology in cultural history. Readings, all in English, from anthropology, archeology, history, sociology, linguistics and law.

CHLIT 420(4420) Tang Poetry: Themes and Contexts (also CHLIT 620[6620]) @ # (LA)

Fall. 4 credits. Prerequisite: minimum three years of Chinese and/or one year of Classical Chinese or permission of instructor. D. X. Warner. A guided reading in Chinese of selected works on shared themes written by selected poets of the Tang dynasty (618-907). Focuses on developing the essential skills for reading Tang poems while giving attention to their social, cultural, and historical contexts.

CHLIT 421-422(4421-4422) Directed Study

Fall or spring. 2-4 credits each semester. Prerequisite: permission of instructor. Staff. Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop course content.

CHLIT 423(4423) Readings in Chinese History @

Spring. 4 credits. *Satisfies Option 1.* Staff.

[CHLIT 435(4435) Chinese Buddhist Texts @ # (LA)]

Fall. 4 credits. Prerequisite: one year of classical Chinese or permission of instructor. Open to students in any area of East Asia with an interest in developing skills in Buddhist texts. Next offered 2007-2008. D. Boucher.]

[CHLIT 497(4497) Disjuncture: Text and Exegesis @ # (LA)]

Spring. 4 credits. Prerequisite: permission of instructor; completion of equivalent of CHLIT 214 and any CHLIT course at 300 level. Next offered 2007-2008. R. McNeal.]

[CHLIT 603(6603) Seminar in Chinese Fiction and Drama]

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. E. Gunn.]

[CHLIT 605(6605) Seminar in Chinese Fiction and Drama]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. Staff.]

[CHLIT 610(6610) Chinese Cultural Criticism]

Spring. 4 credits. Not offered Next offered 2007-2008. E. Gunn.]

CHLIT 615(6615) Seminar: Ideas and Literature of Medieval China

Spring. 4 credits. D. X. Warner. Offers study of the language and genres of Medieval Chinese literature in the context of Medieval Chinese intellectual history. Students read from a range of primary works—including poetry, prose, literature treatises, philosophical essays, and historical writings—from the Later Han to the Sui and early Tang, in addition to a selection of modern scholarly essays in the field. Topic varies from year to year. The primary aim is to re-examine the interrelationship between the history of ideas and the formation of a medieval poetics during the period of Chinese literary history.

[CHLIT 618(6618) Seminar on Ancient China]

Fall. 4 credits. Also fulfills Humanities requirement. Prerequisite: CHLIT 213-214 or permission of instructor. Next offered 2007-2008. R. McNeal.]

CHLIT 621-622(6621-6622) Advanced Directed Reading: Chinese Historical Syntax

621, fall; 622, spring. 2-4 credits. Prerequisite: permission of instructor. Staff. Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop class readings.

[CHLIT 697(6697) Disjuncture: Text and Exegesis]

Spring. 4 credits. Prerequisite: permission of instructor; completion of equivalent of CHLIT 214 and any CHLIT course at 300 level. Next offered 2007-2008. R. McNeal.]

Hindi

HINDI 101-102(1101-1102) Elementary Hindi-Urdu (also NES 105-106[1310-1311])

101, fall; 102, spring. 6 credits each semester. Prerequisite: for HINDI 102, HINDI 101 or equivalent. S. Singh and Staff.

For those students who have had very little or no exposure to Hindi-Urdu. Designed to enable such students to read, write, and converse in the language with confidence and enjoyment. Hindi and Urdu are sister languages and share an identical grammar and elementary vocabulary. The language presented is colloquial. The Hindi script is taught first and the Urdu script is taught as an additional course in the spring semester. Students who have some experience of Hindi-Urdu or a closely related language are suited for HINDI 109-110 and should check with the instructor.

HINDI 109-110(1109-1110) Accelerated Elementary Hindi-Urdu

109, fall; 110, spring. 3 credits each semester. Prerequisite: for HINDI 110, HINDI 109 or equivalent. Completion of this sequence, including satisfactory performance on exam given at end of HINDI 110, constitutes level of performance equal to 101-102 sequence and is thus considered to fulfill qualification for language requirement plus eligibility for 200-level Hindi-Urdu courses. Check with instructor regarding placement. S. Singh and Staff.

Entry-level sequence for students with some prior exposure to Hindi-Urdu or a closely related language. Provides a thorough grounding in all the language skills: listening, speaking, reading, and writing.

HINDI 201-202(2201-2202) Intermediate Hindi Reading @

201, fall; 202, spring. 3 credits each semester. *HINDI 201 satisfies Option 1.* Prerequisites: for HINDI 201, HINDI 102; for HINDI 202, HINDI 201 or permission of instructor. S. Singh and staff.

HINDI 203-204(2203-2204) Intermediate Composition and Conversation @

203, fall; 204, spring. 3 credits each semester. *HINDI 203 satisfies Option 1.* Prerequisites: for HINDI 203, HINDI 102; for HINDI 204, HINDI 203 or permission of instructor. S. Singh and staff.

HINDI 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

HINDI 301-302(3301-3302) Advanced Readings in Hindi Literature @

301, fall; 302, spring. 4 credits each semester. *HINDI 301 satisfies Option 1.* Prerequisites: for HINDI 301, HINDI 202; for HINDI 302, HINDI 301 or equivalent. S. Singh and staff.

Selected readings in modern Hindi literature.

Indonesian

Students who have completed INDO 121-122-123 or its equivalent have the option of taking a one-semester program in Malang, East Java, during the junior year. The program combines

a variety of cultural and artistic options with area course work and advanced language study. Complete information is available through Cornell Abroad.

Students who have completed a minimum of 18 credits or the equivalent are eligible to apply for a summer program in the Advanced Indonesian Abroad Program. Further information is available from the Southeast Asia Program (180 Uris Hall, 255-2378).

INDO 121-122(1121-1122) Elementary Indonesian

121, fall; 122, spring. 4 credits each semester. Prerequisite: for INDO 122, INDO 121. J. Pandin.

Gives a thorough grounding in basic speaking and listening skills with an introduction to reading.

INDO 123(1123) Continuing Indonesian

Fall. 4 credits. Prerequisite: INDO 122 or equivalent. J. Pandin.

Improves speaking skills, such as fluency and pronunciation, focusing on verbal communication skills; offers a wide range of readings and sharpens listening skills.

INDO 203-204(2203-2204) Intermediate Composition and Conversation @

203, fall; 204, spring. 3 credits each semester. *INDO 203 satisfies Option 1.* Prerequisites: for INDO 203, INDO 123; for INDO 204, INDO 203 or permission of instructor. J. Pandin.

INDO 205-206(2205-2206) Intermediate Indonesian @

205, fall; 206, spring. 3 credits each semester. *INDO 205 satisfies Option 1.* Prerequisites: for INDO 205, INDO 123 or equivalent; for INDO 206, INDO 205 or equivalent. J. Pandin.

Develops all four skills: reading, writing, speaking, and comprehension.

INDO 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. J. Pandin.

INDO 305-306(3305-3306) Directed Individual Study

305, fall; 306, spring. 2-4 credits. Prerequisites: INDO 301-302 and 303-304 or equivalent knowledge of Indonesian or Malay. J. Pandin.

Practical language course on an advanced level in which the students read materials in their own field of interest, write reports, and meet with the instructor for two hours a week for 2 credits and twice a week for 4 credits.

Japanese

JAPAN 101-102(1101-1102) Elementary Japanese

101, fall; 102, spring. 6 credits each semester. Prerequisite for 102: JAPAN 101 or placement by instructor during registration period. Intended for beginners or those who have been placed in the course by examination. Students must enroll in one lec and one sec. Undergraduates may not enroll for S-U grade option. Graduate students must enroll for a letter grade and may change to S-U by permission of instructor. R. Sukle, Y. Nakanishi, and staff.

Gives a thorough grounding in all four language skills—speaking, listening, reading, and writing—at the beginning level but with

a special emphasis on oral communication and use of the language in social contexts. Homework is largely work on the skill aspects through practice on the Internet, with CDs, or with tapes. The lecture provides explanation, analysis, and cultural background necessary for successful interaction with Japanese people. Sections are conducted entirely in Japanese. Materials covered are *not* the same as for JAPAN 141-142.

JAPAN 141-142(1141-1142) Beginning Japanese at a Moderate Pace

141, fall; 142, spring. 4 credits each semester. Prerequisite: for JAPAN 142, JAPAN 141 or placement by instructor during registration. Y. Nakanishi and staff.

Beginning-level training in listening, speaking, reading, and writing, with more emphasis on written skills than JAPAN 101-102. Classroom activities focus on oral communication skills. Homework for the course is largely written exercises. Fewer credits and fewer class contact hours than JAPAN 101-102; the course meets five hours per week (M T W R F). Materials covered are *not* the same as for JAPAN 101-102.

JAPAN 201-202(2201-2202) Intermediate Japanese Conversation @

201, fall and summer; 202, spring and summer. 4 credits each semester. *JAPAN 201 satisfies Option 1.* Prerequisites: for JAPAN 201, JAPAN 102 or placement by instructor during registration; for JAPAN 202, JAPAN 201 or placement by instructor during registration. Students must enroll in lec and one sec. Y. Katagiri.

For students with an elementary level of Japanese to continue study of the language and acquire widely applicable oral proficiency. Sections are conducted entirely in Japanese to develop listening comprehension and speaking ability through practical situational practices. Lectures give versatile knowledge of essential structural patterns systematically, with audiovisual aids (e.g., Japanese TV) to demonstrate use in actual situations.

JAPAN 203-204(2202-2204) Intermediate Japanese Reading I

203, fall; 204, spring. 2 or 3 credits each semester. *3-credit version of JAPAN 203 satisfies Option 1@.* Prerequisites: for JAPAN 203, JAPAN 102 or 142, or placement by instructor during registration; for JAPAN 204, JAPAN 203 or 241, or placement by instructor during registration. Y. Kawasaki.

Reading of intermediate texts emphasizing practical materials, with development of writing skills.

JAPAN 241-242(2241-2242) Intermediate Japanese at a Moderate Pace @

241, fall; 242, spring. 4 credits each semester. *JAPAN 241 satisfies Option 1.* Prerequisites: for JAPAN 241, JAPAN 142 or placement by instructor during registration period; for JAPAN 242, JAPAN 241 or placement by instructor. N. Larson.

Training in listening, speaking, reading, and writing for those students who have acquired a basic beginning-level command.

JAPAN 300(3000) Directed Studies

Fall or spring. 1-4 credits variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

JAPAN 301-302 Communicative Competence @

301, fall; 302, spring. 3 credits each semester. *JAPAN 301 satisfies Option 1.* Prerequisites: for JAPAN 301, JAPAN 202 or 242 and placement by instructor during registration; for JAPAN 302, JAPAN 301 or placement by instructor during registration. Y. Kawasaki and staff.

For students who have learned basic Japanese grammar and oral skills and would like to use the language for natural conversation and effective oral communication. The course is intended to (1) expand vocabulary for daily life use; (2) brush up on knowledge of basic grammar for fluency; and (3) develop communicative skills for varied situations.

JAPAN 303-304(3303-3304) Intermediate Japanese Reading II @

303, fall; 304, spring. 4 credits each semester. *JAPAN 303 satisfies Option 1.* Prerequisites: for JAPAN 303, JAPAN 202 or placement by instructor during registration; for JAPAN 304, JAPAN 303 or placement by instructor during registration. K. Selden.

Reading of selected modern texts, including excerpts and brief complete pieces by outstanding writers of Japanese prose.

JAPAN 401-402(4401-4402) Oral Narration and Public Speaking

401, fall; 402, spring. 2 credits each semester. Prerequisites: for JAPAN 401, JAPAN 302 or placement by instructor during registration; for JAPAN 402, JAPAN 401 or placement by instructor during registration. Conducted entirely in Japanese, using Japanese audiovisual and written materials. Y. Katagiri.

Advanced course to develop skills in oral delivery in formal settings. Students increase vocabulary and patterns used in public occasions, e.g., class presentations, speeches, discussions, interviews and debates. Fluency and listening comprehension are emphasized. Also for those interested in academic settings, e.g., research students or conference participants.

JAPAN 403-404(4403-4404) Advanced Japanese Reading @

403, fall; 404, spring. 4 credits each semester. *Satisfies Option 1.* Prerequisite: JAPAN 304 or permission of instructor.

Section I: Area of humanities. May not be used for distribution. Reading of selected modern texts, including newspaper columns and writings by representative authors and critics. K. Selden.

Section II: Area of economics and social science. May not be used for distribution. Y. Kawasaki. Reading of selected modern texts with emphasis on expository style.

JAPAN 410(4410) History of the Japanese Language (also LING/ASIAN 411[4411]) @ # (HA)

Fall. 4 credits. Prerequisite: permission of instructor. J. Whitman.

For description, see LING 411.

JAPAN 421-422(4421-4422) Directed Readings

421, fall; 422, spring. 1-4 credits. Prerequisite: advanced students; placement by instructor during registration. Selected texts from modern and contemporary short stories. K. Selden.

Japanese FALCON (Full-year Asian Language Concentration)

Web site: <http://arc.cornell.edu/falcon>.

Director: R. Sukle, 388 Rockefeller Hall, 255-0734 or rjs19@cornell.edu.

Program coordinator: 388 Rockefeller Hall, 255-6457 or falcon@cornell.edu.

FALCON is designed to develop "copability" in students by bringing them to the level where they can make further progress on their own even with no further instruction.

The full-year program provides over 1,800 hours of language exposure—which exceeds even the exposure that students living in Japan typically receive. This intensive work in Japanese allows students to develop levels of fluency, accuracy, and control of the language that is not achieved in any other type of academic setting. The full-year FALCON sequence is Japanese 160 (summer), 161 (fall), and 162 (spring). By taking this entire sequence, students can complete as much Japanese in one calendar year as they would complete in three or more years of regular study at most academic institutions. Because of FALCON's intensive nature, graduate students can complete their language work in minimal time. Undergraduates, including freshmen, achieve levels of competency that far exceed what is normally achieved in a four-year program, provided that they continue studying Japanese after FALCON. Three small interactive classes per day are conducted entirely in Japanese, and one lecture is conducted in both Japanese and English. The interactive classes are conducted by experienced and highly trained teachers, and the lecture is taught by an expert in the structure of the Japanese language. In addition to time spent in these classes, students also are required to spend two one-hour sessions per day in the language lab. Additional preparation time in the language lab of up to three hours is necessary in the evenings.

JAPAN 160(1160) Introductory Intensive Japanese (FALCON)

Summer only. 8 credits. R. Sukle and staff. Formal application to FALCON is required. Admission is open to all students, not just those planning to take the full year. Students from other institutions are also welcome to apply. Applications must be received by March 1. After the deadline, applications are considered provided that space is available. This is the first semester of FALCON. It is a full-time, intensive, nine-week course that meets Monday through Friday from 8:30 A.M. to 4:30 P.M.; 160 starts at the absolute beginning level, in terms of speaking, listening, and rudimentary reading and writing. Students who complete this course and plan to continue at Cornell may take the fall and spring FALCON courses (JAPAN 161 and 162). Students interested in other options for continuing after FALCON should consult the FALCON director, Robert Sukle, at rjs19@cornell.edu or 255-0734.

JAPAN 161-162(1161-1162) Intensive Japanese (FALCON) @

161, fall; 162, spring. 16 credits each semester. *JAPAN 161 satisfies Option 1.* Prerequisites for 161: JAPAN 160, JAPAN 102 at Cornell, or placement by FALCON staff before beginning of fall semester; for 162, JAPAN 161 or placement by FALCON staff before beginning of spring semester. R. Sukle and staff.

Formal application to FALCON is required. Admission is open to all students, including those from other institutions. Applications must be received by March 1. After the deadline, applications are considered provided that space is available. Work on spoken and written Japanese from an intermediate level to an advanced level. This is a full-time program and a full academic load. The schedule is Monday through Friday, approximately 9:00 A.M. to 4:30 P.M. The demands of the program do not permit students to take other courses simultaneously. The 160-161-162 sequence fulfills the language requirement for the M.A. in Asian Studies and the joint M.B.A./M.A. in Asian Studies.

Literature in Japanese**JPLIT 406(4406) Introduction to Classical Japanese @ #**

Fall. 4 credits. *Satisfies Option 1.*

Prerequisite: permission of instructor. K. Selden.

Introduction to the fundamental grammar and vocabulary of classical Japanese.

JPLIT 408(4408) Readings in Classical Japanese @ #

Spring. 4 credits. *Satisfies Option 1.*

Intended for students who have completed JAPAN 403/404 sequence or equivalent.

Prerequisite: JPLIT 406 or permission of instructor. K. Selden.

Readings of excerpts and complete brief pieces from representative premodern Japanese literature mostly with the use of standard modern annotated editions. Different selections and themes are introduced each year.

JPLIT 421-422(4421-4422) Directed Readings

421, fall; 422, spring. 2-4 credits.

Prerequisite: for JPLIT 421, JAPAN 404 or equivalent; for JPLIT 422, JAPAN 421 or equivalent. Staff.

Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop class readings.

[JPLIT 456(4456) Heian Narrative @ (LA)]

Fall. 4 credits. Recommended: some knowledge of classical Japanese. Next offered 2007-2008. T. LaMarre.]

JPLIT 617(6617) Modern Japanese Philosophy

Fall. 4 credits. N. Sakai.

Seminar on modern Japanese philosophy. Students are expected to read texts in Japanese and discuss epistemic, historical, and practical issues involved in them. Supplementary reading of European and U.S. philosophical texts is also required.

JPLIT 618(6618) Japanese Philosophical Discourse II

Spring. 4 credits. Prerequisite: reading knowledge of Japanese. N. Sakai.

This seminar is designed to offer students an opportunity to read, analyze, and evaluate the philosophical discourse of modern Japan in conjunction with contemporary European and American developments. The main concern of this course is in fact the operation of "comparison." At the seminar which will be organized neither as a search for the national (or oriental) character of Japanese philosophy nor as a project of explaining philosophical arguments in terms of the traits of the

national culture, but rather as an attempt to comprehend how philosophy participates in the construction and transformation of given social formations, we will read excerpts from philosophical works in Japanese and English. In order to enroll in this course, students are required to have a reading knowledge of Japanese.

JPLIT 624(6624) Advanced Readings in Modern Japanese Literature

Fall. 4 credits. Prerequisite: permission of instructor. T. LaMarre.

JPLIT 625(6625) Directed Readings

Fall or spring. 4 credits. Staff. Students choose a faculty member to oversee this independent study. The student and the faculty member work together to develop class readings.

Khmer (Cambodian)

KHMER 121-122-123(1121-1122-1123) Elementary Khmer

121, fall; 122, spring; 123, fall. 4 credits each semester. Prerequisite: for KHMER 122, KHMER 121; for KHMER 123, 122; for beginners or those placed in course by examination. H. Phan.

Gives a thorough grounding in speaking and reading.

KHMER 201-202(2201-2202)

Intermediate Khmer Reading @

201, fall; 202, spring. 3 credits each semester. *KHMER 201 satisfies Option 1.* Prerequisites: for KHMER 201, KHMER 102; for KHMER 202, 201. H. Phan. Continuing instruction in spoken and written Khmer.

[KHMER 203-204(2203-2204)]

Intermediate Composition and Conversation @

203, fall; 204, spring. 3 credits each semester. *KHMER 203 satisfies Option 1.* Prerequisites: for KHMER 203, KHMER 102; for KHMER 204, 203. H. Phan.

KHMER 300(3000) Directed Studies

Fall or spring. 1-4 credits variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff. Taught on a specialized basis to address particular student needs.

KHMER 301-302(3301-3302) Advanced Khmer @

301, 302, fall. 4 credits each semester. *KHMER 301 satisfies Option 1.* Prerequisites: for KHMER 301, KHMER 202 or equivalent; for KHMER 302, 301. H. Phan.

Continuing instruction in spoken and written Khmer; emphasis on enlarging vocabulary, increasing reading speed, and reading various genres and styles of prose.

KHMER 401-402(4401-4402) Directed Individual Study

401, fall; 402, spring. 2-4 credits each semester. Prerequisite: advanced students; permission of instructor. H. Phan.

Korean

KOREA 101-102(1101-1102) Elementary Korean

101, fall; 102, spring. 6 credits each semester. H. Diffloth and staff. Covers basics of speaking, reading, and writing. Introduces Hangul writing system and grammar.

KOREA 109-110(1109-1110) Elementary Reading

109, fall; 110, spring. 3 credits each semester. Prerequisite: permission of instructor. H. Diffloth and staff. For students who have spoken some Korean in the home, but whose reading and writing skills are limited or nonexistent. If in doubt about eligibility, see instructor.

KOREA 201-202(2201-2202) Intermediate Korean @

201, fall; 202, spring. 4 credits each semester. *KOREA 201 satisfies Option 1.* Prerequisites: for KOREA 201, KOREA 102 or permission of instructor; for KOREA 202, 201. H. Diffloth and staff. Covers the basics of speaking, reading, and writing at the intermediate level.

KOREA 209-210(2209-2210) Intermediate Reading @

209, fall; 210, spring. 4 credits each semester. *KOREA 209 satisfies Option 1.* Prerequisites: for KOREA 209, KOREA 110 or permission of instructor; for KOREA 210, 209 or permission of instructor. If in doubt about eligibility, see instructor. M. Song.

Intermediate level of reading comprehension and writing course for students who have acquired basic oral proficiency. Introduces some reading and writing with Chinese characters.

KOREA 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. H. Diffloth. Taught on a specialized basis to address particular student needs.

KOREA 301-302(3301-3302) Advanced Korean @

301, fall; 302, spring. 4 credits each semester. *KOREA 301 satisfies Option 1.* Prerequisites: for KOREA 301, KOREA 202 or placement by instructor; for KOREA 302, 301 or placement by instructor. H. Diffloth and staff.

Reading of advanced texts, including newspapers and Chinese character material, together with advanced use of the spoken language.

[KOREA 430(4430) Structure of Korean (also LING/ASIAN 430(4430)) (KCM)]

Spring. 4 credits. Next offered 2008-2009. J. Whitman. For description, see LING 430.]

Literature in Korean

KRLIT 405(4405) Readings in Korean Literature @ (LA)

Fall. 4 credits. Prerequisite: three years of Korean language study or permission of instructor. Staff. Readings of 20th-century Korean literature in the original. Short stories and novels are selected to provide a mixture of canonical and contemporary authors. Students also read some academic works of literary history and criticism.

KRLIT 432(4432) Middle Korean (also LING 432(4432)) @ # (LA)

Spring. 4 credits. Prerequisite: KOREA 301 or equivalent. J. Whitman. For description, see LING 432.

[KRLIT 615(6615) Development of Literary Modernity in Korea]

Fall. 4 credits. Prerequisite: graduate standing; fluency in Korean. Next offered 2008-2009.]

[KRLIT 617(6617) Colonial Modernity in Korea]

Spring. 4 credits. Prerequisites: fluency in Korean and permission of instructor. Next offered 2007-2008. M. Shin.]

Nepali

The Cornell Nepal Study Program

Cornell and the central campus of Tribhuvan National University (in Kirtipur, Kathmandu) cosponsor a semester or year in Nepal at the Cornell Nepal Study Program for both undergraduate and graduate students. North American students live and study with Nepali students at the Cornell program houses near the university, taking courses taught in English by faculty from Tribhuvan University. After an intensive orientation, semester courses include intensive spoken and written Nepali language, Contemporary Issues in Nepal, and Research Design and Methods in a wide variety of fields in the social and natural sciences and the humanities. (Language instruction in Tibetan and Newari may also be arranged.) There is a 10-day study tour and field trip during the semester, and students execute their research proposal during four weeks of guided field research, writing up their findings for presentation at the end of the semester.

Juniors, seniors, and graduate students from any field may apply. Students should have a desire to participate in a program featuring relatively intense cultural immersion and to undertake rigorous field research. Instruction is in English, but prior study of Nepali language is strongly recommended for Cornell students. Those interested in the program should consult Cornell Abroad (cuabroad@cornell.edu).

NEPAL 101-102(1101-1102) Elementary Nepali

101, fall; 102, spring; 101-102, summer. 6 credits each semester. Prerequisite: for NEPAL 102, NEPAL 101 or examination. S. Oja.

Intended for beginners. The emphasis is on basic grammar, speaking, and comprehension skills, using culturally appropriate materials and texts. Devanagari script for reading and writing is also introduced.

NEPAL 201-202(2201-2202) Intermediate Nepali Conversation @

201, fall; 202, spring; 201-202, summer. 3 credits each semester. *NEPAL 201 satisfies Option 1.* Prerequisites: for NEPAL 201, NEPAL 102 or examination; for NEPAL 202, 201 or examination. S. Oja.

Intermediate instruction in spoken grammar and verbal comprehension skills, with special attention to developing technical vocabularies and other verbal skills appropriate to students' professional fields.

NEPAL 203-204(2203-2204) Intermediate Nepali Composition @

203, fall; 204, spring; 203-204, summer. 3 credits each semester. *NEPAL 203 satisfies Option 1.* Prerequisites: for NEPAL 203, NEPAL 102 or examination; for NEPAL 204, 203 or examination. S. Oja.

Systematic review of written grammar and reading comprehension, with special attention to the technical vocabularies, necessary writing skills, and published materials typical of advanced students' professional fields.

NEPAL 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. S. Oja.

Taught on a specialized basis to address particular student needs.

NEPAL 301-302(3301-3302) Advanced Nepali @

301, fall; 302, spring; 301-302, summer. 3 credits each semester. *NEPAL 301 satisfies Option 1.* Prerequisite: NEPAL 204 or permission of instructor. S. Oja.

Reading of advanced texts, together with advanced drill on the spoken language.

Pali**[PALI 131-132(1131-1132) Elementary Pali**

131, fall; 132, spring. 3 credits each semester. This language series may not be used to satisfy language requirement. Next offered 2007-2008. Staff.]

[PALI 151(1151) Accelerated Elementary Pali

Spring. 3 credits. Prerequisite: background in Sanskrit or permission of instructor. Next offered 2007-2008. A. Blackburn.]

PALI 300(3000) Directed Studies

Spring. 1-4 credits, variable. Prerequisite: PALI 132, 151, or two years of Sanskrit. Times TBA with instructor. D. Boucher.

Taught on a specialized basis to prepare students for research and teaching.

Sanskrit**[SANSK 131-132(1131-1132) Elementary Sanskrit (also CLASS 191-192[1331-1332], LING 131-132[1131-1132])**

131, fall; 132, spring. 4 credits each semester. Offered alternate years; next offered 2007-2008. Staff.]

SANSK 251-252(2251-2252) Intermediate Sanskrit (also CLASS 291-292[2351-2352], LING 251-252[2251-2252]) @ #

251, fall; 252, spring. 3 credits each semester. *SANSK 251 satisfies Option 1.* Prerequisite: SANSK 132 or equivalent. Offered alternate years. Staff.

SANSK 323(3323) Buddhist Hybrid Sanskrit

Fall. 4 credits. D. Boucher.

An introduction to Buddhist Hybrid Sanskrit, the idiom of a number of (particularly Mahayana) Buddhist texts composed from roughly second century BCE through (and possibly beyond) the fourth century CE. The aim will be to familiarize students with Middle Indo-Aryan phonology and its appearance in disguised form in BHS texts. Students will also be introduced to reading Buddhist texts in manuscripts, especially with texts which have been preserved in independent recensions,

so as to explore the problems of redactional criticism.

Literature in Sanskrit**SNLIT 467-468(4467-4468) Reading in Sanskrit Literature: The Vedas @ #**

Spring. 3 credits. Prerequisite: permission of instructor. C. Minkowski.

Sinhala (Sinhalese)**SINHA 101-102(1101-1102) Elementary Sinhala**

101, fall; 102, spring. 6 credits each semester. Prerequisite: for SINHA 102, SINHA 101 or equivalent. W. Liyanage.

Semi-intensive course for beginners. A thorough grounding is given in all the language skills; listening, speaking, reading, and writing.

SINHA 201-202(2201-2202) Intermediate Sinhala Reading @

201, fall; 202, spring. 3 credits each semester. *SINHA 201 satisfies Option 1.* Prerequisites: for SINHA 201, SINHA 102; for SINHA 202, 201 or equivalent. W. Liyanage.

[SINHA 203-204(2203-2204) Intermediate Composition and Conversation @

203, fall; 204, spring. 3 credits each semester. *SINHA 203 satisfies Option 1.* Prerequisites: for SINHA 203, SINHA 102 or permission of instructor; for SINHA 204, 203 or equivalent. W. Liyanage.

SINHA 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

Tagalog**TAG 121-122(1121-1122) Elementary Tagalog**

121, fall; 122, spring. 4 credits each semester. Prerequisite: for TAG 122, TAG 121. T. Savella.

Gives a thorough grounding in basic speaking and listening skills with an introduction to reading.

TAG 123(1123) Continuing Tagalog

Fall. 4 credits. Prerequisite: TAG 122 or equivalent. T. Savella.

Improves speaking skills, such as fluency and pronunciation, focusing on verbal communication skills; offers a wide range of readings; and sharpens listening skills.

TAG 205-206(2205-2206) Intermediate Tagalog @

205, fall; 206, spring. 3 credits each semester. *TAG 205 satisfies Option 1.* Prerequisites: for TAG 205, TAG 123 or equivalent; for TAG 206, 205 or equivalent. T. Savella.

Develops all four skills: reading, writing, speaking, and comprehension.

TAG 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. T. Savella.

Taught on a specialized basis to address particular student needs.

TAG 301-302(3301-3302) Advanced Tagalog @

301, fall; 302, spring. 3 credits each semester. *TAG 301 satisfies Option 1.* Prerequisite: TAG 206 or equivalent. T. Savella.

Continuing instruction on conversational skills but with emphasis on reading and writing. Selected core readings in contemporary Tagalog literature are used, but students, in consultation with the instructor, may select some of the reading materials.

Thai**THAI 101-102(1101-1102) Elementary Thai**

101, fall; 102, spring. 6 credits each semester. Prerequisite: for THAI 102, THAI 101 or equivalent. Intended for beginners or students placed by examination. N. Jagacinski.

Gives a thorough grounding in all the language skills: listening, speaking, reading, and writing.

THAI 201-202(2201-2202) Intermediate Thai Reading @

201, fall; 202, spring. 3 credits each semester. *THAI 201 satisfies Option 1.* Prerequisites: for THAI 201, THAI 102; for THAI 202, 201 or equivalent. N. Jagacinski. Continuing instruction in spoken and written Thai.

THAI 203-204(2203-2204) Intermediate Composition and Conversation @

203, fall; 204, spring. 3 credits each semester. *THAI 203 satisfies Option 1.* Prerequisites: for THAI 203, THAI 102; for THAI 204, 203. N. Jagacinski.

Intermediate instruction in spoken and written grammar and reading comprehension.

THAI 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. N. Jagacinski. Taught on a specialized basis to address particular student needs.

THAI 301-302(3301-3302) Advanced Thai @

301, fall; 302, spring. 4 credits each semester. *THAI 301 satisfies Option 1.* Prerequisite: THAI 202 or equivalent. N. Jagacinski.

Selected readings in Thai writings in various fields.

THAI 303-304(3303-3304) Thai Literature @

303, fall; 304, spring. 4 credits each semester. *THAI 303 satisfies Option 1.* Prerequisite: THAI 302 or equivalent. N. Jagacinski.

Reading of significant novels, short stories, and poetry written since 1850.

THAI 401-402(4401-4402) Directed Individual Study

401, fall; 402, spring. 4 credits each semester. For advanced students or students with special problems or interests. Prerequisite: permission of instructor. N. Jagacinski.

Urdu**URDU 125(1125) Introduction to the Urdu Script (also NES 107[1312])**

Spring. 1 credit. Prerequisite: HINDI 101 or permission of instructor. S. Singh.
Provides instruction in the basics of the Urdu script. Intended primarily for students who have had some exposure to Hindi or Urdu but who have had little or no formal training in the script. The course focuses on mastering the script and pronunciation. It does not provide instruction in grammar.

URDU 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable.
Prerequisite: permission of instructor.
Times TBA with instructor. S. Singh.
Taught on a specialized basis to address particular student needs.

Vietnamese**VIET 101-102(1101-1102) Elementary Vietnamese**

101, fall; 102, spring. 6 credits each semester. Prerequisite: for VIET 102, VIET 101 or equivalent. Intended for beginners or students placed by examination.
T. Tranviet.

Gives a thorough grounding in all language skills: listening, speaking, reading, and writing.

VIET 201-202(2201-2202) Intermediate Vietnamese @

201, fall; 202, spring. 3 credits each semester. *VIET 201 satisfies Option 1.*
Prerequisites: for VIET 201, VIET 102 or equivalent; for VIET 202, 201. T. Tranviet.
Continuing instruction in spoken and written Vietnamese.

VIET 203-204(2203-2204) Intermediate Vietnamese Composition and Reading @

203, fall; 204, spring. 3 credits each semester. *VIET 203 satisfies Option 1.*
Prerequisite: permission of instructor.
T. Tranviet.

Designed for students and "native" speakers of Vietnamese whose speaking and listening are at the advanced level, but who still need to improve writing and reading skills.

VIET 300(3000) Directed Studies

Fall or spring. 1-4 credits variable.
Prerequisite: permission of instructor.
Times TBA with instructor. T. Tranviet.
Taught on a specialized basis to address particular student needs.

VIET 301-302(3301-3302) Advanced Vietnamese @

301, fall or spring; 302, fall or spring. 3 credits each semester. *VIET 301 satisfies Option 1.* Prerequisites: for VIET 301, VIET 202 or permission of instructor; for VIET 302, 301. T. Tranviet.

Continuing instruction in spoken and written Vietnamese; emphasis on enlarging vocabulary, increasing reading speed, and reading various genres and styles of prose.

VIET 401-402(4401-4402) Directed Individual Study

401, fall; 402, spring. 2-4 credits, variable, each semester. Prerequisite: permission of instructor. Intended for advanced students.
T. Tranviet.

Various topics according to need.

Vietnamese Literature**VTLIT 222-223(2222-2223) Introduction to Classical Vietnamese @ #**

222, fall; 223, spring. 3 credits. *VTLIT 222 satisfies Option 1.* Prerequisite: qualification in Vietnamese or permission of instructor. K. Taylor.

VTLIT 222 is the first semester of a two-semester sequence of courses introducing students to Han (classical Chinese as used in the Vietnamese language) and Nom (vernacular Vietnamese character writing). Students learn to read Han and Nom texts, from the 17th through 19th centuries, including historical records, prose writings, and poetry. VTLIT 223 is the second semester of a two-semester sequence of courses.

Related Courses in Other Departments and Colleges

Check the primary department section for the offering status of the following courses. Courses in other colleges will count as College of Arts and Sciences credit only for Asian Studies majors.

Asia/General Courses

ANTHRO 374 Human Palaeontology
AEM 464 Economics of Agricultural Development (also ECON 464)

AEM 667 Topics in Economic Development (also ECON 770)

COMM 424/624 Communication in the Developing Nations

ECON 473 Economics of Export-Led Development

[ART H 280 Introduction to Art History: Approaches to Asian Art]

ILRIC 637 Labor Relations in Asia

D SOC 205 Rural Sociology and International Development

China—Area Courses

ANTHR 655 East Asia: Readings in Specific Problems

ECON 469 Economy of China

ECON 772 Economics of Development

GOVT 645 Chinese Politics

HIST 294 China in Modern Times

[HIST 493/693 Problems in Modern Chinese History]

[ART H 380 Introduction to the Arts of China]

[ART H 481 The Arts in Modern China]

Japan—Area Courses

ANTHR 655 East Asia: Readings in Specific Problems

ARCH 339 Elements, Principles, and Theories in Japanese Architecture

[HIST 230 Japan and the Pacific War]

[HIST 328 State, Society, and Culture in Modern Japan]

ILRHR 656 International Human Resource Management

South Asia—Area Courses

[ANTHR 275 Human Biology and Evolution (also BIOES/NS 275)]

ANTHR 321 Sex and Gender

[ANTHR 339 Peoples and Cultures of the Himalayas]

[ANTHR 406 Culture of Lives]

[ANTHR 621 Sex and Gender]

ANTHR 641 South Asia: Readings in Specific Problems

[ANTHR 673 Human Evolution: History, Concepts, and Theory (also BIOES 673)]

ARCH 342 Architecture as a Cultural System

ARCH 441-442 Special Topics in Architectural Culture and Society

ARCH 445 Architecture and the Mythic Imagination

ARCH 446 Topics in Architecture, Culture, and Society

ARCH 447 Architectural Design and the Utopian Tradition

ARCH 647-648 Architecture in Its Cultural Context I and II

ARCH 649 Graduate Investigations in Architecture, Culture, and Society

CRP 671 Seminar in International Planning

[ECON 475 Economic Problems of India]

HD 436 Language Development (also PSYCH/LING 436)

HD 633 Seminar on Language Development

Southeast Asia—Area Courses

ANTHR 420 Development of Anthropology Thought

[ANTHR 424 Anthropology Amongst Disciplines]

[ANTHR 619 Anthropology Approaches to Study of Buddhism(s) in Asia]

ANTHR 628 Political Anthropology: Indonesia

ANTHR 634-635 Southeast Asia: Readings in Special Problems

GOVT 642 Comparative Political Economy: East and Southeast Asia

HIST 244 History of Siam and Thailand

[HIST 395 Southeast Asian History from the 18th Century]

[HIST 695 Early Southeast Asia: Graduate Proseminar]

HIST 696 Modern Southeast Asia: Graduate Proseminar

ART H 490 Art and Collecting: East and West

MUSIC 245 Gamelan in Indonesian History and Cultures

MUSIC 445-446 Cornell Gamelan Ensemble

MUSIC 604 Ethnomusicology

ASIAN AMERICAN STUDIES PROGRAM

The Asian American Studies Program is a university-wide academic program housed administratively within the College of Arts and Sciences. Its aim is to promote teaching, research, and educational activities related to Asians in the Americas and to serve as a resource to the campus and regional communities. The program's undergraduate

courses, offered within the program and cross-listed with departments in various colleges, meet distribution requirements and count toward a concentration in Asian American Studies. The program does not offer a graduate course of study, but students can undertake graduate work in Asian American Studies within selected disciplines of the university.

Undergraduate Concentration

The program's undergraduate concentration affords students an opportunity to develop a multidisciplinary approach to the study of Asians in the hemispheric Americas. The course of study stresses developments within the United States, but also underscores the transnational and comparative contexts of Asian America and the field's connections with African American, American Indian, Latino, and Women's Studies. Students must work with a faculty advisor from among the program's affiliated faculty and must complete at least 15 units of credits as follows: (1) AAS 110 and two additional courses in Asian American Studies; (2) one course in African American, American Indian, U.S. Latino Studies, or Feminist, Gender, & Sexuality Studies; and (3) one course in East Asian, South Asian, or Southeast Asian Studies.* (*These courses must be approved by the student's faculty advisor, and they should address issues of race, gender, or the histories and cultures of Asian peoples.) Students must file an application for the concentration with the Asian American Studies Program.

Resource Center

The program's Asian American Studies Resource Center, located in 420 Rockefeller Hall, provides meeting space for the more than 40 undergraduate student organizations of the Cornell Asian Pacific Student Union and the graduate student Asian Pacific American Graduate Association. It also holds a modest print collection of books, periodicals, and newspapers; a current news clipping file; a comprehensive database of publications on Asian Americans since 1977; and a sizable collection of videotapes as well as music CDs on the Asian American experience.

Research

The program encourages faculty and student research on Asian Americans by sponsoring guest lectures, conferences, film festivals, readings, and exhibits. It also funds research projects and student travel to conferences and research sites. The Asian American Studies Workshop is the program's principal research initiative, engaging Cornell's faculty and students with invited faculty from other universities in a year-long intensive study of selected themes.

Core Faculty

D. Chang, C. Lai, V. Munasinghe, T. Tu, S. Wong

Courses

AAS 110(1100) Introduction to Asian American Studies (CA)

Spring. 3 credits. Can be used to satisfy either social science or humanities distribution requirement. T. Tu.

The purpose of this course is fourfold: (1) to introduce students to the multifaceted experiences of Asians in the United States; (2)

to examine how a diverse group of people came to be identified as "Asian Americans"; (3) to understand the role of difference—gender, class, ethnic—in the formation of "Asian American" identities; and (4) to link historical experiences with contemporary issues.

AAS 111(1110) Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (also AM ST 110[1110]) (HA)

Fall. 4 credits. Next offered 2007–2008. D. Chang and M. C. Garcia.]

AAS 209(2090) SSP: The Immigrant Imagination (also ART H 209[2190], AM ST 227[2091]) (HA)

Spring. 4 credits. Limited to 15 students. T. Tu.

For description, see ART H 209. This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. These seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

AAS 210(2110) SSP: South Asian Diasporic Locations (also ANTHR 210[2110]) (CA)

Spring. 4 credits. Next offered 2008–2009. V. Munasinghe.]

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. These seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.]

AAS 211(2110) SSP: Race and the American City: Reading San Francisco and New York (LA)

Fall. 4 credits. Next offered 2007–2008. S. Wong.]

AAS 262(2620) Asian American Literature (also AM ST/ENGL 262[2620])

Fall. 4 credits. S. Wong.

For description, see ENGL 262.

AAS 303(3030) Asians in the Americas: A Comparative Perspective (also ANTHR 303[3703]) (CA)

Spring. 4 credits. V. Munasinghe.

For description, see ANTHR 303.

AAS 347(3470) Asian American Women's History (also HIST 347/FGSS 347/AM ST 351/AM ST 351[3470])

Spring. 4 credits. D. Chang.

For description, see HIST 347.

AAS 380(3800) Asian American Urban Experience (also CRP 395 sec 9 and CRP 629)

Fall. 3 credits. C. Lai.

For description, see CRP 395.9.

[AAS 413(4130) Race, Technology, and Visuality (also ART H 413[4113]) (CA)

Fall. 4 credits. Next offered 2007–2008. T. Tu.

Examines how new information and communication technologies have altered the ways we visualize and perform racial identities. Questions the popular assumption that the "information revolution" has made it possible and even desirable to transcend racial differences by exploring the following: how racial hierarchies have informed debates around techno-literacy, creativity, ownership, and agency; how race is embodied (through visual and linguistic cues) in the ostensibly disembodied domains of virtual media; and how the emergence of interactive, online, electronic entertainment, and mobile technologies have allowed artists to generate new images of and ideas about racial and ethnic identities.]

AAS 414(4140) Popular Culture in Asian America (also ART H 414[4114]) (CA)

Spring. 4 credits. Prerequisite: permission of instructor. T. Tu.

For description, see ART H 414.

[AAS 424(4240) Asian American Communities (also HIST/AM ST 420[4220]) (HA)

Fall. 4 credits. Next offered 2008–2009. D. Chang.]

AAS 430(4301) Topics in American Studies: The Rabinovitch Seminar (also AM ST 430.5[4301], ENGL 430[4030], HIST 448[4480])

Fall. 4 credits. S. Wong.

For description, see AM ST 430.5.

[AAS 453(4530) 20th-Century American Women Writers of Color (also ENGL 453[4530]) (LA)

Fall. 4 credits. Next offered 2007–2008. S. Wong.]

[AAS 479(4790) Ethnicity and Identity Politics: An Anthropological Perspective (also ANTHR 479[4749]) (SBA)

Spring. 4 credits. Next offered 2007–2008. V. Munasinghe.]

AAS 495(4950) Independent Study

Fall or spring. 1–4 credits. Topic and credit hours TBA arranged between faculty and student. Independent study forms must be approved by Asian American Studies Program office. Staff.

[AAS 497(4970) Jim Crow and Exclusion-Era America (also HIST 497/697) (HA)

Spring. 4 credits. Limited to 15 students. Next offered 2007–2008. D. Chang.

Seminar examining America during the overlapping eras of segregation and immigration exclusion. Beginning with contests over the meaning of freedom during reconstruction and running through the institution of Jim Crow legislation and immigration exclusion, the course ends with an evaluation of mid-20th century movements for civil rights and equality. Themes include the links between racial and economic oppression, legal and de facto restriction, everyday resistance, and struggles for equality.]

ASTRONOMY

J. F. Veverka, chair (312 Space Sciences Bldg., 255-3507); G. J. Stacey, director of undergraduate studies (212 Space Sciences Bldg., 255-5900); R. E. Bean, J. F. Bell, J. A. Burns, D. B. Campbell, D. F. Chernoff, J. M. Cordes, E. E. Flanagan, P. J. Gierasch, R. Giovanelli, M. P. Haynes, T. L. Herter, J. R. Houck, D. Lai, J. P. Lloyd, R. V. E. Lovelace, J.-L. Margot, P. D. Nicholson, C. J. Salter, S. W. Squyres, Y. Terzian, S. A. Teukolsky, I. M. Wasserman, J. York. Emeritus: P. F. Goldsmith, T. Hagfors, M. O. Harwit, E. E. Salpeter

Cornell's Astronomy faculty, research staff, graduate, and undergraduate students are active in diverse areas of modern astronomy ranging from theoretical astrophysics and general relativity to radio and radar astronomy, infrared and optical astronomy, and the exploration of the solar system. Cornell operates two local optical observatories, the world's largest radio telescope at Arecibo, Puerto Rico, and with two other institutions, the 200-inch optical telescope at Mt. Palomar in California. With Caltech, Cornell is carrying out a design study for a large submillimeter telescope in the high Atacama desert in Chile. Several members of the department faculty are also principal investigators on major NASA space and planetary exploration missions.

The department offers a number of courses to satisfy a general interest in astronomy. These courses have few or no prerequisites and are not intended for the training of professional astronomers. Among the introductory courses, several choices are available, depending on background and on the requirements to be fulfilled. The 100-level courses are designed primarily for nonscience majors. The alternative introductory sequence ASTRO 211-212 is geared toward sophomore physical science and engineering majors and requires co-registration in beginning calculus. ASTRO 201 and 202 are intended for students with an interest in astronomy but no scientific background; they are topical rather than survey-oriented. ASTRO 332 is designed for physical science and engineering majors as an introduction to astrophysics. Other courses at the 200 and 300 levels may appeal to students of various backgrounds and interests, as indicated in the individual course descriptions.

Courses numbered above 400 are intended for students who have had two to three years of college physics and at least two years of college mathematics. ASTRO 440 Independent Study permits students to engage in individual research projects under the guidance of a faculty member.

Interested students are encouraged to become members of the undergraduate Cornell Astronomy Club. The club has access to the Fuertes Observatory on campus and conducts regular observing and astrophotography sessions. All students are invited to visit the Space Sciences Building, see the exhibits on display there, and consult faculty members about career plans or choice of courses.

The Major

The purpose of the major in Astronomy is to provide in-depth knowledge and education about the nature of the universe. Astronomy relies heavily on preparation in physics and mathematics. Consequently, many courses in these fields are included as prerequisites. In

preparation for the major, students normally elect the introductory physics sequence PHYS 112-213-214 or 116-217-218 and the complementary pathway in mathematics, MATH 111-122-221-222 or 191-192-293-294 (or equivalent). Students who anticipate undertaking graduate study are urged to elect the honors physics sequence PHYS 116-217-218-318-327 if possible. The sophomore seminar ASTRO 233 Topics in Astronomy and Astrophysics provides an introduction to current research in astronomy and astrophysics for prospective majors, but is not required of students who elect to major in Astronomy after the sophomore year. Students are also urged to acquire computer literacy. ASTRO 334 is designed to give students hands-on experience with the methods of analysis, visualization, and simulation needed in astrophysical research. Acceptance to the major is first considered after completion of three semesters of introductory physics and mathematics and in general requires a GPA of 3.2 in physics and mathematics courses.

The major requirements stress the importance of building a strong preparation in physical science. The following upper-level courses are normally required:

PHYS 314 or 318, 316, 323 or 327, 341 and 443
A&EP 321-322 (or equivalent, e.g., MATH 420 and 422)

ASTRO 410, 431, and 432.

With permission of the major advisor, students interested in planetary studies may substitute appropriate advanced courses or may pursue an independent major under the program in the Science of Earth Systems. Majors are encouraged to supplement the above courses with any astronomy, physics, or other appropriate courses at or above the 300 level. Advanced seniors can enroll in astronomy graduate courses with the permission of the instructor. Students are also encouraged to work with faculty members on independent study projects under the course ASTRO 440 or to apply to a variety of programs at Cornell, Arecibo, and elsewhere that offer undergraduates summer employment as research assistants. Nearly all undergraduate majors and concentrators become involved in research projects in the junior and senior years.

Students whose interest in astronomy is sparked somewhat late in their undergraduate career are encouraged to discuss possible paths with the director of undergraduate studies in Astronomy.

Honors. A student may be granted honors in Astronomy upon the recommendation of the Astronomy Advisors Committee of the Astronomy faculty.

Double majors. A double major in Astronomy and another subject is possible in many circumstances. However, the set of courses used to fulfill the requirements for each major must be completely independent.

Concentration. The concentration in Astronomy for other majors normally requires 12 credits, at least eight of which must be at the 300 level or above. ASTRO 233 is recommended for sophomores planning to concentrate in Astronomy.

Distribution Requirement

All courses in astronomy, except ASTRO 233, may be used to fulfill the science distribution

requirement in the College of Arts and Sciences.

Courses

ASTRO 101(1101) The Nature of the Universe (PBS)

Fall. 3 credits. Limited to 30 students per disc. T. Herter.

Introduces students to the cosmos. The birth, evolution, and death of stars, the formation of the chemical elements, and the nature of white dwarfs, neutron stars, and black holes are discussed. An introduction to the theories of special relativity and general relativity is given. The course covers the search for other worlds outside the solar system and the possible existence of life and intelligence elsewhere in the universe. Modern theories of cosmology are presented, and the origin, structure, and fate of the universe are discussed. Most of the course notes as well as sample exams and simulations are made available on the web.

ASTRO 102(1102) Our Solar System (PBS)

Spring. 3 credits. Limited to 30 students per disc. S. Squyres and J.-L. Margot; labs: P. Nicholson and staff.

The past few decades have seen incredible advances in the exploration of our solar system. In this course students learn about the current state and past evolution of the Sun and its family of planets, moons, asteroids, and comets. The course emphasizes images and other data obtained from current and past NASA space missions and how these data provide insights about the important processes that have shaped the evolution of solar system objects. General astronomical concepts relevant to the study of the solar system are also discussed. Critical focus is on developing an understanding of the Earth as a planetary body and discovering how studies of other planets and satellites influence models of the climatic, geologic, and biologic history of our home world. Other topics include impact hazards, the search for life in the solar system, and future missions.

ASTRO 103(1103) The Nature of the Universe (PBS)

Fall. 4 credits. Limited to 22 students per lab, 30 students per disc sec. T. Herter, labs: P. Nicholson, and staff.

Identical to ASTRO 101 except for addition of the laboratory.

ASTRO 104(1104) Our Solar System (PBS)

Spring. 4 credits. Limited to 22 students per lab, 30 students per disc sec. J.-L. Margot and S. Squyres.

Identical to ASTRO 102 except for addition of the laboratory.

ASTRO 105(1105) An Introduction to the Universe (PBS)

Summer. 3 credits. Recommended: high school physics. D. Kornreich.

How do we measure the size of our galaxy and the size of the universe? Is the universe round or flat? How are the stars born, why do they shine, and how do they die? What are the chemical elements, and how were they formed in stars? What are quasars, pulsars, and black holes? How was the solar system formed? What are the environments of other planets like? What is the basic structure of Earth and the other planets? Will we catastrophically alter the earth? Does life exist

elsewhere in the universe? How can we find out? Each student has an opportunity to make observations with small telescopes.

ASTRO 106(1106) Essential Ideas in Relativity and Cosmology (PBS)

Summer. 3 credits. Prerequisites: high school algebra and trigonometry.

T. Nikona and F. Martinache.

Explanation of Einstein's theories of special and general relativity, which brought about a fundamental change in our conceptual understanding of space and time. Correspondence to, and conflicts with, common sense. Applications to various areas in special relativity (space travel, the equivalence of mass and energy, nuclear fission and fusion, and thermonuclear processes in the sun) and in general relativity (motion of light and particles in curved space-time, cosmological models, and the question of whether the universe is open or closed).

ASTRO 107(1107) An Introduction to the Universe (PBS)

Summer. 4 credits. D. Kornreich.

Identical to ASTRO 105 except for the addition of the afternoon laboratory that emphasizes mathematical problem-solving. This option is recommended for potential majors in science and engineering.

ASTRO 195(1195) Observational Astronomy (PBS)

Fall. 3 credits. Limited to 24 students. Prerequisite: permission of instructor required (forms available in SS610).

J. Lloyd.

Provides a "hands-on" introduction to observational astronomy intended for liberal arts students at the freshman and sophomore level. High school mathematics is assumed, but otherwise there are no formal prerequisites. The course objective is to teach how we know what we know about the universe. The course is set up with two lectures and one evening laboratory per week. Not all of the evening sessions are used. Planned exercises include five or six observational labs (star gazing with binoculars and small telescopes, telescopic observations and CCD imaging of star clusters, nebulae, and the planets, solar observations, radio observations of the Milky Way Galaxy), plus a selection of exercises from the following: experiments in navigating by the stars; construction and use of simple instruments such as optical spectrometers and sun dials; laboratory spectroscopy; experiments in planetary cratering; collection and study of micrometeorites; computer simulations of the orbits of planets and their satellites; and cosmological explorations using data from the Hubble Space Telescope available on the web.

ASTRO 201(2201) Our Home in the Universe (PBS)

Fall. 3 credits. Prerequisite: freshman or sophomore standing. No scientific background assumed. R. Giovanelli.

General discussion of our relation to the physical universe and how our view of the universe has changed from ancient to modern times. Several main themes are covered over the course of the semester: the evolution of our view of the sky from that of ancient cultures to that of space telescopes; the death of stars and the formation of black holes; dark matter and the structure of galaxies; and the origin, evolution, and fate of the universe. Presents a nonmathematical introduction to

these subjects and discuss uncertainties and unresolved issues in our understanding.

ASTRO 202(2202) Our Home in the Solar System (PBS)

Spring. 3 credits. Prerequisite: freshman or sophomore standing; some background in science. J. Veverka.

Writing course designed to develop an understanding of our home planet as a member of a diverse family of objects in our solar system. Discussion centers on how studies of other planets and satellites have broadened our knowledge and perspective of Earth, and vice versa. We study, debate, and learn to write critically about important issues in science and public policy that benefit from this perspective. Topics discussed include global warming, the impact threat, the searches for extrasolar planets and extraterrestrial intelligence, and the exploration of Mars.

ASTRO 211(2211) Astronomy: Stars, Galaxies, and Cosmology (PBS)

Fall. 4 credits. Intended for first- and second-year engineering and physical sciences students. Prerequisite: introductory calculus or co-registration in MATH 111 or 191 or permission of instructor. R. Bean.

Topics discussed include: the formation and evolution of normal and extreme stars, the structure and evolution of galaxies, and cosmology.

ASTRO 212(2212) The Solar System: Planets, Satellites, and Rings (PBS)

Spring. 4 credits. Intended for first- and second-year engineering and physical sciences students. Prerequisite: introductory calculus or co-registration in MATH 111 or 191; some knowledge of classical physics (mechanics and thermodynamics). P. Nicholson.

Introduction to the solar system, with emphasis on the application of simple physical principles. Topics include: the Sun, nucleosynthesis of the elements, radioactive dating, seismology and planetary interiors, planetary surfaces and atmospheres including greenhouse models, orbital mechanics and resonances, interrelations between meteorites, asteroids and comets, the Jovian planets, icy moons and ring systems, and the search for extra-solar planets.

ASTRO 233(2233) SSP: Topics in Astronomy and Astrophysics

Fall. 2 credits. Limited to 15 students. Intended for sophomores planning to major in Astronomy or related fields. Prerequisites: PHYS 112 or 116 and 213 or 217, MATH 112, 122 or 192 or permission of instructor. Home page: www.astro.cornell.edu/academics/courses/astro233. M. Haynes.

The course theme may change yearly. The fall 2006 course will be offered as a Knight sophomore seminar and will explore the theme "Star Formation: From the Early Universe to the Solar Neighborhood." We will explore how star formation in different locations within the Milky Way and other galaxies has varied throughout cosmic time, how local environment may play a role in the formation of multiple star and/or planetary systems, and the connections between stellar birth and stellar death in supernovae. We will also look at starbursting systems such as infrared luminous galaxies and quasars and

the relationship of star, galaxy, and black hole formation in the early universe.

This is a special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

ASTRO 280(2280) Space Exploration (PBS)

Fall. 3 credits. No special background in physical sciences, math, or engineering assumed. S. Squyres.

Provides an overview of space science, with particular emphasis on the solar system, and a detailed examination of a few selected objects, including the planet Mars, the satellites in the outer solar system, and comets. The focus is on methods of collecting information and especially on spacecraft and space missions. Topics include the design and limitations of instruments. Ethical and political questions associated with space exploration are discussed. Intended for students with an interest in science, technology, and associated policy issues.

ASTRO 290(2290) Relativity and Astrophysics (PBS)

Spring. 4 credits. Prerequisites: freshman physics, calculus, and geometry. I. Wasserman.

Provides a geometrically based introduction to special and general relativity, followed by consideration of astrophysical applications. Includes discussion of tests of Einstein's theory of space, time, and gravitation; the physics of white dwarfs, neutron stars, and black holes; an introduction to modern cosmology.

ASTRO 299(2299) Search for Life in the Universe (PBS)

Spring. 4 credits. Prerequisites: two courses in any physical science subject or permission of instructors. J. Cordes and Y. Terzian.

Surveys the contents of the universe. Reviews theories of cosmic and stellar evolution, and of the formation and evolution of planetary systems, planetary atmospheres, and surfaces. Questions regarding the evolution of life and the development of technology are discussed. Methods to detect extraterrestrial life with emphasis on radio telescopes and associated instrumentation are presented. Hypothetical communication systems are developed and discussed.

[ASTRO 310(3310) Planetary Imaging Processing (PBS)]

Fall. 3 credits. Intended for sophomores or juniors majoring or concentrating in Astronomy or related fields. Prerequisites: two semesters of introductory physics and some experience with computer programming; permission of instructor required (form available in SS610). Next offered 2007–2008. J. Bell.

Reviews basic techniques employed in the collection and processing of spacecraft images of solar system objects. See www.astro.cornell.edu/courses/astro310/main.html for course details.]

ASTRO 331(3331) Climate Dynamics (also EAS 305[3050]) (PBS)

Fall. 4 credits. Prerequisite: MATH 112 or 192 or equivalent or permission of instructor. K. Cook.

Processes that determine climate and contribute to its change are discussed, including atmospheric radiation, ocean circulation, and atmospheric dynamics. Contemporary climate change issues are investigated and discussed in the context of natural variability of the system.

ASTRO 332(3332) Elements of Astrophysics (PBS)

Spring. 4 credits. Prerequisites: MATH 112, 122, 192, or equivalent; PHYS 213 or 217. J. Houck.

Introduction to astronomy, with emphasis on the application of physics to the study of the universe. Covers: physical laws of radiation; distance, size, mass, and age of stars, galaxies, and the universe; stellar evolution and nucleosynthesis; supernovae and black holes; galaxies and quasars. Introduction to cosmology. Mainly intended for students of science, engineering, and science education interested in astronomy and astrophysics.

ASTRO 334(3334) Modern Astrophysical Techniques (PBS)

Spring. 3 credits. Intended for sophomores majoring or concentrating in Astronomy or related fields. Prerequisites: two semesters of introductory physics and two semesters of calculus. Recommended: ASTRO 233. J. Lloyd.

The course reviews the basic techniques employed in astrophysical research, both observational and theoretical, to explore the universe. Basic methods and strategies of data acquisition and image and signal processing are discussed. Students gain hands-on experience with visualization techniques and methods of error analysis, data fitting, and numerical simulation. Exercises address the processes by which astrophysicists piece together observations made with today's foremost astronomical instruments to solve questions concerning the origin of planets, stars, galaxies, and the universe itself.

ASTRO 342(3342) Atmospheric Dynamics (also EAS 342[3420]) (PBS)

Spring. 3 credits. Prerequisites: one year each of calculus and physics. K. H. Cook. For description, see EAS 342.

ASTRO 410(4410) Experimental Astronomy (PBS)

Fall. 4 credits. Prerequisites: PHYS 214/218 (or 310 or 360), PHYS 323/327 (or co-registration) and permission of instructor required (form available in S8610). J. Bell, J. Cordes, and J. Houck.

Observational astrophysics. Major experiments involve techniques in CCD (charge-coupled-device) imaging, optical photometry, optical spectroscopy, radiometry, radio spectroscopy and radio astronomy. The experiments involve use of the Hartung-Boothroyd Observatory's 24-inch telescope, a laboratory two-element radio interferometer, and a radio telescope mounted on top of the Space Sciences Building. The laboratory covers the fundamentals of using astronomical instrumentation and data analysis as applied to celestial phenomena: asteroids, normal stars, supernova remnants, globular clusters, planetary nebulae, the interstellar medium, OH masers, and galaxies.

ASTRO 431(4431) Introduction to Astrophysics and Space Sciences (PBS)

Fall. 4 credits. Prerequisites: mathematics above 200 level and physics above 300 level. Recommended: PHYS 443. I. Wasserman.

Overview of modern astrophysical concepts for physical science majors. Major topics include stellar formation, structure, and evolution; stellar atmospheres; compact objects (white dwarf, neutron star, and black holes); planets; and brown dwarfs. Current research problems in these areas are introduced along the way. The emphasis is on using fundamental principles of physics to explain astronomical phenomena. A variety of physics, including elements of atomic and molecular physics, solid state physics and fluid mechanics, are introduced or reviewed in a quick, practical fashion to be put to use in solving astrophysics puzzles.

ASTRO 432(4432) Introduction to Astrophysics and Space Sciences II (PBS)

Spring. 4 credits. Prerequisite: ASTRO 431 or permission of instructor. D. Chernoff and R. Bean.

Covers two broad topics: the astrophysics of the interstellar medium and cosmology. The interstellar medium section covers thermal equilibrium and radiative transport in HII regions, atomic gas regions, and molecular clouds. The cosmology section includes expansion of the universe, metrics, Friedmann equations, dark matter, cosmological tests, the early universe, and the cosmological production of the elements.

ASTRO 440(4940) Independent Study in Astronomy

Fall or spring. 2-4 credits. Prerequisite: permission of instructor; to register: obtain an independent study form in department office, 610 Space Sciences Bldg. Recommended: familiarity with topics covered in ASTRO 332, 431, or 434.

Individuals work on selected topics. A program of study is devised by the student and instructor.

ASTRO 445(4445) Introduction to General Relativity (also PHYS 445[4445]) (PBS)

Fall. 4 credits. E. Flanagan. For description, see PHYS 445.

ASTRO 490(4490) Senior Seminar Critical Thinking (PBS)

Fall. 3 credits. Prerequisites: none. Open to all students. Y. Terzian.

Critical thinking in scientific and nonscientific contexts with selections from the history of astronomy. Topics include elements of classical logic, including standards of evidence. Case studies include examples of competing hypotheses in the history of science, as well as examples from borderline sciences. Stress is put on creative generation of alternative hypotheses and their winnowing by critical scrutiny. Topics include the nature and history of the universe, the nature of time, the nature of reality, the possibilities of life on other planets, and artificial intelligence. Fallacies, illusions, and paradoxes will also be discussed. The course includes debates by the students on controversial topics such as: Can machines think? Is science and technology to be blamed for Hiroshima and 9/11? Should the genome be improved? Is the future determined?

ASTRO 509(6509) General Relativity (also PHYS 553[6553])

Fall. 4 credits. Prerequisite: knowledge of special relativity and methods of dynamics at level of *Classical Mechanics* by Goldstein. J. York.

Systematic introduction to Einstein's theory using both modern and classical methods of computation. Topics include review of special relativity, differential geometry, foundations of general relativity (GR), laws of physics in the presence of gravitational fields, GR as a dynamical theory, experimental tests of GR. The level of the course will be comparable to that in the text *Gravitation* by Misner, Thorne, and Wheeler. This text is required: it will be used for reading, reference, and problem assignments. Robert Wald's book *General Relativity* is also suggested but not required.

ASTRO 510(6510) Applications to General Relativity (also PHYS 554[6554])

Spring. 4 credits. Prerequisite: ASTRO 509. J. York.

Continuation of ASTRO 509 that emphasizes applications to astrophysics and cosmology. Topics include relativistic stars, gravitational collapse and black holes, gravitational waves and cosmology, use of dynamics to formulate astrophysical and cosmological computations in the flourishing field of numerical relativity.

ASTRO 511(6511) Physics of Black Holes, White Dwarfs, and Neutron Stars (also PHYS 525[6525])

Spring. 4 credits. Prerequisites: all of physics at upper-division undergraduate level. D. Lai.

Compact objects (neutron stars, black holes, and white dwarfs) are the endpoints of stellar evolution. They are responsible for some of the most exotic phenomena in the universe, including supernova explosion, radio pulsars, bright X-ray binaries, magnetars, and gamma-ray bursts. Supermassive black holes also lie at the heart of the violent processes in active galactic nuclei and quasars. The study of compact objects allows one to probe physics under extreme conditions (high densities, strong magnetic fields, and gravity). This course surveys the astrophysics of compact stars and related subjects. Emphasis is on the application of diverse theoretical physics tools to various observations of compact stars. There are no astronomy or general relativity prerequisites. At the level of *Physics of Black Holes, White Dwarfs, and Neutron Stars* by Shapiro and Teukolsky.

[ASTRO 516(6516) Galactic Structure and Stellar Dynamics

Fall. 4 credits. Next offered 2007-2008. D. Chernoff.

Introduction to the study of the structure of galaxies via the laws of modern physics. Topics include the observed kinematics and spatial distribution of stars in the vicinity of the Sun, shapes and properties of stellar orbits, the gravitational N-body problem, collisional relaxation in stellar systems, spiral structure, galaxy classification and evolution, and cosmological results in galaxy formation.]

[ASTRO 520(6520) Radio Astronomy

Fall. 4 credits. Next offered 2007-2008. J. Cordes and D. Campbell.

Covers radio astronomy telescopes and electronics; antenna theory; observing procedures and data analysis; concepts of interferometry and aperture synthesis.]

ASTRO 523(6523) Signal Modeling, Statistical Inference, and Data Mining in Astronomy

Fall. 4 credits. J. Cordes.

Aims to provide tools for modeling and detection of various kinds of signals encountered in the physical sciences and engineering. Data mining and statistical inference from large and diverse databases are also covered. Experimental design is to be discussed. Basic topics include probability theory; Fourier analysis of continuous and discrete signals; digital filtering; matched filtering and pattern recognition; spectral analysis; Karhunen-Loeve analysis; wavelets; parameter estimation; optimization techniques; Bayesian statistical inference; deterministic, chaotic, and stochastic processes; image formation and analysis; maximum entropy techniques. Specific applications are chosen from current areas of interest in astronomy, where large-scale surveys throughout the electromagnetic spectrum and using non-electromagnetic signals (e.g., neutrinos and gravitational waves) are ongoing and anticipated. Applications are also chosen from topics in geophysics, plasma physics, electronics, artificial intelligence, expert systems, and genetic programming. The course is self-contained and is intended for students with thorough backgrounds in the physical sciences or engineering.

ASTRO 525(6525) Techniques of Optical/Infrared and Submillimeter Astronomy

Spring. 4 credits. T. Herter and G. Stacey.

Optical/infrared and submillimeter telescopes and instrumentation are discussed and related to current research in these fields. Includes telescope design and general optical design (ray tracing). CCD, photoconductor, photovoltaic, bolometer, impurity band conduction, and heterodyne detection systems are presented. The instrumentation discussion includes general instrument design and specific applications to cameras, spectrographs, and interferometers. Detection limits of various systems, cryogenic techniques, and astronomical data analysis techniques are also discussed. Special topics include speckle interferometry and adaptive optics.

[ASTRO 530(6530) Astrophysical Processes

Spring. 4 credits. Next offered 2007–2008.

Fundamentals of radiative transfer, bremsstrahlung, synchrotron radiation, Compton scattering, spectral line transfer, gas heating and cooling and topics in atomic and molecular spectroscopy topics are discussed within the framework of astrophysical sources and problems.]

ASTRO 560(6560) Theory of Stellar Structure and Evolution (also PHYS 667[7667])

Fall. 4 credits. D. Chernoff.

Intended to provide a systematic development of stellar astrophysics, both theory and observations. Topics include hydrostatic equilibrium; equation of state; radiation transfer and atmospheres; convection and stellar turbulence; nuclear burning and nucleosynthesis; solar neutrinos; star formation; pre-main sequence stars; brown dwarfs; end states of stellar evolution (white dwarfs, neutron stars, and black holes); supernovae; interacting binary stars; stellar rotation and magnetic fields; stellar pulsations; winds and outflows. The prerequisites for the

course are all undergraduate-level physics. Though helpful, no astronomy background is required.]

[ASTRO 570(6570) Physics of the Planets

Fall. 4 credits. Next offered 2007–2008.

P. Nicholson.

Introductory survey of planetary science with an emphasis on the application of physical principles. Planetary dynamics, including satellite orbits, tidal interactions, resonances, and ring dynamics. An introduction to the theory of planetary interiors, gravitational fields, heat sources, and rotational mechanics. An introductory survey of planetary science with an emphasis on the application of physical principles. Planetary dynamics, including satellite orbits, tidal interactions, resonances, and ring dynamics. An introduction to the theory of planetary interiors, gravitational fields, heat sources, and rotational mechanics. Intended for graduate students and seniors in astronomy, physics, and engineering. Intended for graduate students and seniors in astronomy, physics, and engineering.]

[ASTRO 571(6571) Mechanics of the Solar System (also T&AM 673[6730])

Spring. 3 credits. Next offered 2008–2009.

J. Burns.

For description, see T&AM 673.]

ASTRO 575(6575) Planetary Atmospheres (also EAS 575[5750])

Fall. 4 credits. Offered every other year.

P. Gierasch.

Introduction to radiative transfer in emitting and scattering atmospheres. Radiative energy balance and radiative equilibrium. Structures of the atmospheres in the solar system. Introduction to motions in atmospheres. Planetary examples of balanced flows. Mesoscale waves, wave absorption and wave accelerations. Planetary waves. The influence of wave accelerations on thermal structure and composition. Introduction to atmospheric chemistry. Dynamical transports. Observations. At the level of Andrews, *Atmospheric Physics*.

ASTRO 577(6577) Planetary Surface Processes (also EAS 577[5770])

Spring; 3 or 4 credits (3 credits for course only; 4 credits if registered for the lab trip—see course description below).

J. Bell.

Survey of processes involved in the formation and evolution of the surfaces of solar system bodies. Surface morphology and landforms of terrestrial planets, planetary satellites, asteroids, and comets. Fundamentals of impact cratering, volcanism, tectonism, and erosion as applied to planetary surfaces, with significant emphasis on terrestrial field examples as analogs and study sites. Basic introduction to physical, geochemical, and “space” weathering of planetary surfaces. Basic introduction to field methods and remote sensing techniques and data sets (terrestrial, spacecraft). Students enrolled in the course can participate in an optional field trip over Spring Break to a “classic” planetary surface process analog field site (e.g., Meteor Crater, Amboy, Hawaii, Grand Canyon, Death Valley) for 1 additional credit. Grading based on participation in discussions, critical literature reviews, and final project/presentation.

ASTRO 578(6578) Planet Formation and Energy (also EAS 578[5780])

Fall. 4 credits. J.-L. Margot and M. Pritchard.

Survey of chemical and physical processes important to the origin and evolution of planetary systems. The first part of the course will cover the formation of planets including the astronomical context, nucleosynthesis, meteoritics, condensation sequence, accretion, dynamical evolution, and observational constraints (disks, exoplanets, major planets, satellites, and small bodies). The second part of the course will cover planetary internal structure and evolution including melting, differentiation, core formation, convection, thermal evolution, and magnetic fields.

[ASTRO 579(6579) Celestial Mechanics (also T&AM 672[6720])

Spring. 3 credits. Next offered 2007–2008.

J. Burns.

For description, see T&AM 672.]

ASTRO 590(6590) Galaxies and the Universe

Fall. 4 credits. R. Giovanelli and

M. Haynes.

The universe, its constituents, its large-scale structure, and its history in the light of the major thrusts of extragalactic research. The morphology, photometry, dynamics, and kinematics of galaxies and their subsystems. Determination of masses, mass-to-light ratios, and the “missing mass.” Activity in Seyferts, radio galaxies, and quasars. Binaries, groups, clusters, and superclusters. The extragalactic distance scale. Galaxy formation and evolution. Confrontation of cosmological theories with observational results.

[ASTRO 599(6599) Cosmology (also PHYS 599[6599])

Spring. 4 credits. Prerequisites: statistical physics, quantum mechanics, and electromagnetic theory courses. Next offered 2007–2008. R. Bean.

Intended to provide a detailed theoretical development of current ideas in cosmology. Topics include observational overview; growth of irregularities, galaxy formation, and clustering; big bang cosmology, recombination, nucleosynthesis; very early universe, symmetry breaking, inflationary scenarios. At the level of *Principles of Physical Cosmology* by Peebles.]

ASTRO 620(7620) Seminar: Advanced Radio Astronomy

Spring. 2 credits. Prerequisites: for advanced undergraduates, by permission of instructor. Recommended: some background in astronomical spectroscopy.

R. Giovanelli, M. Haynes, and J. Houck.

“Dwarf Galaxies: The View from 1 Meter to 1 Micron.” CDM theory describes the growth of structure through the merger of small halos formed in large numbers early-on, and while these small halos serve as the building blocks of galaxies and clusters, many low mass objects are nonetheless expected to survive to the present epoch. In this seminar, we will explore our current understanding of dwarf galaxies, their impact on hierarchical structure development and the clues about galaxy formation and evolution they carry with them especially as viewed using today's long wavelength forefront instruments Spitzer, ALFA and the VLA and, in the future, ALMA and CCAT.

[ASTRO 621(7621) Seminar: Planetary Radar Astronomy]

Spring. 3 credits. Prerequisites: upper-level undergraduates and graduate students in Astronomy, engineering, and geology; good background in undergraduate mathematics and physics. Next offered 2007-2008. D. Campbell and J.-L. Margot. Discussion of radar techniques and the results from the application of these techniques to the study of solar system bodies including the Earth.]

ASTRO 640(6940) Advanced Study and Research

Fall or spring. Credit TBA. Guided reading and seminars on topics not currently covered in regular courses.

[ASTRO 652(7652) Advanced Atmospheric Dynamics (also EAS 652(6520))]

Spring. 3 credits. Next offered 2007-2008. S. Colucci and P. Gierasch.]

[ASTRO 660(7660) Cosmic Electrodynamics (also A&EP 608(6080))]

Spring. 2 credits. Next offered 2007-2008. R. Lovelace.

Selected topics discussed in detail: the solar wind, stellar winds, Bondi accretion, Bondi-Hoyle accretion, accretion disks with B fields, magneto-rotational instability, magneto-centrifugal winds and jets from disks, Poynting jets, funnel flows, the propeller stage of accretion, advection and convection dominated accretion flows, fast dynamo processes in astrophysics.]

ASTRO 671(7671) Seminar: Planetary Science

Fall. 3 credits. Next offered 2007-2008. Focuses on the astrophysics of star formation and reviews observational data about young stars and their connection with the interstellar medium from which they form. Students consider the physical processes in molecular clouds, including stability, formation of dense cores, and protostars. The impact of young stars on their surroundings—an important part of the overall process of star formation—is considered for both low- and high-mass stars. Students review the evolution of pre-main-sequence stars and examine star formation on both galactic and extragalactic scales. The class is conducted in a seminar format: students make presentations on selected topics and write and deliver a research paper.]

[ASTRO 671(7671) Seminar: Planetary Science]

Spring. 3 credits. Next offered 2007-2008. J. Houck, T. Herter, J. Lloyd, and G. Stacey.

Covers topics of current interest in infrared and submillimeter astrophysics, including extrasolar planets; star formation in the galaxy; nearby dwarf, starburst, and ultraluminous galaxies; and distant "proto"-galaxies. Recent results obtained with Spitzer Space Telescope and ground-based facilities are covered. The seminar includes lectures from faculty and staff and also student presentations from the readings during the course.]

[ASTRO 673(7673) Seminar: Planetary Atmospheres]

Spring. 2 credits. Next offered 2007-2008. P. Gierasch.

Deals with motions in planetary atmospheres. Among the topics discussed are the Venus general circulation, dust and water transports

on Mars, alternating jets on the outer planets, and compositional layering in the outer planets.]

ASTRO 690(7690) Seminar: Computational Physics (also PHYS 480/680[4480/7680])

Spring. 3 credits. Prerequisite: working knowledge of FORTRAN. Staff. For description, see PHYS 480/680.

ASTRO 699(7699) Seminar: Problems in Theoretical Astrophysics (also PHYS 665(7665))

Fall. 2 credits. D. Lai. For Fall 2006, ASTRO 699/PHYS 665 will focus on astrophysical gas dynamics. A knowledge of gas dynamics is important for understanding many of the most interesting problems in astrophysics: e.g. star and planet formation, compact objects, active galaxies, galaxy formation (the baryonic components). This course will review hydrodynamics and magnetohydrodynamics in an astrophysics context. It is intended for both theory and observational/experimental students. No previous exposure to gas dynamics is required.

BIOLOGICAL SCIENCES

The biological sciences ("biology") major is distinguished from other life sciences majors by its focus on basic, as opposed to applied, aspects of biology. All biology majors take courses in genetics, evolutionary biology, and biochemistry—subjects fundamental to understanding questions spanning the full spectrum of biology in the age of genomics.

In addition to taking these core courses, each student completes a Program of Study ("concentration") that affords the opportunity for acquiring a more detailed knowledge of particular subject areas: Animal Physiology, Biochemistry, Computational Biology, Ecology and Evolutionary Biology, Genetics and Development, Insect Biology, Molecular and Cell Biology, Microbiology, Neurobiology and Behavior, Nutrition, Plant Biology, and Systematics and Biotic Diversity. Alternatively, students may choose to explore three or more of these areas in the General Biology Program of Study.

The continuing rapid advances in biology are built on an ever-greater integration with the physical sciences and mathematics. Thus, the biology major is designed to provide students with a strong foundation not only in core areas of modern biology, but also in chemistry, organic chemistry, physics, and mathematics.

Students work with faculty, staff, and student advisors in selecting their Program of Study and in choosing the course options that each offers. The Office of Undergraduate Biology (OUB) in 216 Stimson Hall oversees advising for biology majors, and also coordinates the extensive program undergraduate biology research, including the biology research honors program.

The biology major is very popular among students of both the College of Agriculture and Life Sciences and the College of Arts and Sciences. It provides excellent preparation not only for advanced degrees, but also for health careers, because so many of its requirements are also requirements for medical, dental, or

veterinary programs. For more details about the biology major and minor see the section in this catalog on biological sciences or visit www.biology.cornell.edu.

BIOLOGY & SOCIETY MAJOR

B. Chabot, director of undergraduate studies, College of Arts and Sciences; N. Breen, advising coordinator, College of Human Ecology; B. Chabot, advising coordinator, College of Agriculture and Life Sciences; E. Adkins-Regan, D. Bates, B. Bedford, W. Bemis, K. Berggren, R. Boyd, J. T. Brenna, D. Brown, R. Calvo, R. Canfield, S. Ceci, B. Chabot, C. C. Chu, W. Crepet, J. Davis, P. Dear, R. Depue, G. W. Feigenson, J. Fortune, C. Geisler, W. Ghiorse, C. Goodale, C. Greene, D. Gurak, J. Haas, A. Hajek, L. Harrington, A. Hedge, S. Hilgartner, H. C. Howland, G. Hudler, B. Johnson, B. Knuth, A. Lemley, C. Leuenberger, D. Levitsky, B. Lewenstein, B. A. Lewis, M. Lynch, S. McCouch, I. Merwin, A. Netravali, N. Noy, S. K. Obendorf, P. Parra, A. Parrot, D. Pelletier, M. Pfeffer, T. Pinch, A. G. Power, R. Prentice, W. Provine, J. V. Reppey, S. Robertson, E. Rodriguez, M. Rossiter, J. Shanahan, R. Stoltzfus, J. Tantiello, V. Utermohlen, K. Vogel, R. Wayne, E. Wethington, T. Whitlow, S. Wolf. Emeritus: U. Bronfenbrenner, C. Eberhard, K. A. R. Kennedy, J. Fessenden MacDonald, J. Mueller, D. Pimentel, J. M. Stycos

The Biology & Society major is suited for students who wish to combine training in biology with perspectives from the social sciences and humanities on the social, political, and ethical aspects of modern biology. In addition to providing a foundation in biology, Biology & Society students gain a background in the social dimensions of modern biology and in the biological dimensions of contemporary social issues.

The Biology & Society major, which involves faculty from throughout the university, is offered by the Department of Science and Technology Studies. Students in the College of Arts and Sciences, the College of Human Ecology, and the College of Agriculture and Life Sciences are eligible for the major. The major is coordinated for students in all colleges through the Biology & Society Office. Students can get information, specific course requirements, and application procedures for the major from the Biology & Society office in 306 Rockefeller Hall, 255-6047.

Because the major is multidisciplinary, students must attain a basic understanding of the several disciplines it comprises. The curriculum includes courses in ethics; statistics; history, philosophy, and social studies of science and biology; and basic biology (e.g., genetics and development; biochemistry and molecular-cell biology; ecology; evolutionary biology), as well as integrative courses offered through Biology & Society. Majors are required to take a core course and must develop a theme, an intellectually coherent grouping of courses representative of their special interest in Biology & Society. Recommended themes in the Biology & Society major include biology, behavior, and society; biology and human population; biology and public policy; environment and society; and health and society. Students may also develop their own individually tailored themes (which in

recent years have included topics such as biotechnology and society and agriculture, environment, and society). In consultation with their faculty advisor, students select courses that meet the foundation and core course requirements so as to build a coherent theme. Sample curricula for the recommended themes and for several student-developed themes are available in the Biology & Society office.

Faculty members are available (according to posted office hours or by appointment) in the Biology & Society offices, 306 Rockefeller Hall, to answer questions and to provide assistance.

Admission to the Major

All students should have completed a year of college-level biology before submitting an application during their sophomore year. Juniors are considered on a case-by-case basis. Upper-division applicants should realize the difficulties of completing the major requirements in fewer than two years. Freshmen admitted to the Colleges of Agriculture and Life Sciences and Human Ecology as Biology & Society majors are considered to have been admitted to the major on a provisional basis, contingent on successful completion of the course sequence in introductory biology and submission of the application to the university major. The application includes (1) a one-page statement explaining the student's intellectual interests in the Biology & Society major and why the major is consistent with the student's academic goals and interests; (2) the theme the student wishes to pursue in the major; (3) a tentative plan of courses fulfilling Biology & Society requirements, including courses already taken and those the student plans to take; and (4) a transcript of work completed at Cornell University (and elsewhere, if applicable), current as of the date of application.

Acceptance into the major requires completion of the course sequence in introductory biology. Sophomores in the process of completing this prerequisite may be admitted to the major on a *provisional* basis. It is the student's responsibility to assure that final acceptance is granted upon satisfactory completion of the introductory biology sequence. Although only introductory biological science is a prerequisite for acceptance, students find it useful to have completed some of the other requirements (listed below) by the end of their sophomore year, preferably by the end of the first semester. Students who are considering the major may also find it beneficial to take S&TS 201, What Is Science?, in their freshman or sophomore year. Human Ecology students should also consult the current Human Ecology guide and meet with the college advising coordinator, Nancy Breen, 205 Martha Van Rensselaer Hall, 255-1928.

Major Requirements

No single course may satisfy more than one major requirement. All courses must be taken for a letter grade.

1. Basic courses

- BIO G 101–104 or 105–106 or 107–108 (prerequisite for admission to Biology & Society).
- College calculus (one course):* MATH 106, 111, 112 or any higher-level calculus.

- Recommended but not required: General chemistry (one-year sequence) (prerequisite to biochemistry and other chemistry courses): CHEM 103–104, 206, 207–208, or 215–216.

2. Foundation Courses (should be completed by end of junior year). Foundation courses are intended to provide a broad introduction to methodology and theory in their area.

These courses must be above the 100 level, at least 3 credit hours, and taken for a letter grade.

- Ethics: one course; B&SOC 205 (also S&TS 205) or B&SOC 206 (also S&TS 206, PHIL 246).*
- Social sciences/humanities foundation: two courses; one from any two of the following subject areas: history of science; philosophy of science; sociology of science; politics of science; and science communication.**
- Biology foundation (breadth requirement): three courses; one each from three of the following subject areas: biochemistry, molecular and cell biology (BIOBM 330 or 331 or 333 or NS 320); ecology (BIOEE 261, BIOSM 364, BIOSM 375); genetics and development (BIOGD 281 or 282 or PL BR 225); evolutionary biology (BIOEE 278); animal behavior (BIONB 221, BIOSM 329); neurobiology and behavior (BIONB 222); physiology and anatomy (BIOAP 311 but *not* BIOAP 212); biological diversity (BIOPL 241 or BIOMI 290 or BIOEE 373 or 274 or 450 and 470 or 472 or 475 or 476 or ENTOM 212 or PL PA 301 or 309 or BIOSM 310 or 374 or 377 or 449); nutrition (NS 115).
- Biology foundation (Depth requirement): one biology course for which one of the above (2c) is a prerequisite.***
- Statistics: one course selected from MATH 171, BTRY 301, AEM 210, SOC 301, PSYCH 350, ECON 319, PAM 210, ILRST 212.

3. Core Course**: (one course). Should be completed by end of junior year.

B&SOC 301 Life Sciences and Society (also S&TS 301); or S&TS 286 Science and Human Nature (also PHIL 286).

4. Theme (five courses that correspond to the theme selected by the student). These courses must be above the 100-level, at least 3 credit hours, and taken for a letter grade. Choose these courses as follows:

- Natural science issues/biology elective (two courses). Select from the list of B&SOC approved natural science issues courses or choose course(s) with introductory biology as a prerequisite.
- Humanities/social sciences electives** (two courses). Courses from the list of senior seminars may be used as theme electives if not used to meet another requirement, or select humanities or social sciences courses in consultation with the faculty advisor.
- Senior seminar** (one course taken senior year). Courses change yearly.

- * Students may petition to take a second statistics course (an advanced course, in sequence with the statistics course taken in the foundation) in place of the calculus requirement.

- ** Among the courses taken to meet the social sciences and humanities requirements (2.A, 2.B, 3, 4.B, and 4.C), a minimum of two social science courses and two humanities courses must be chosen. History of science, philosophy of science, and ethics courses may be counted toward the humanities requirement for the major.

- *** A list of approved depth courses using NS 115 as a prerequisite is available in 306 Rockefeller Hall.

Independent Study

Projects under the direction of a Biology & Society faculty member are encouraged as part of the program of study in the student's theme area. Applications for research projects are accepted by individual faculty members. Students may enroll for 1–4 credits in B&SOC 375 Independent Study with written permission of the faculty supervisor and may elect either the letter grade or the S-U option. Applications and information on faculty research, scholarly activities, and undergraduate opportunities are available in the Biology & Society office, 306 Rockefeller Hall. Independent study credits may not be used in completion of the major requirements.

The Honors Program

The honors program is designed to provide independent research opportunities for academically talented undergraduate students whose major is Biology & Society (B&SOC). Students who enroll in the honors program are expected, with faculty guidance, to do independent study and research dealing with issues in Biology & Society. Students participating in the program should find the experience intellectually stimulating and rewarding whether or not they intend to pursue a research career.

Biology & Society majors are considered for entry into the honors program at the end of the second semester of the junior year. Application forms for the honors program are available in the Biology & Society office, 306 Rockefeller Hall. The honors program is available to Biology & Society majors from the Colleges of Arts and Sciences and Agriculture and Life Sciences. Biology & Society majors in the College of Human Ecology must be selected by an honors committee within their college. To qualify for the Biology & Society honors program, students must have an overall Cornell cumulative grade point average (GPA) of at least 3.3, have formulated a research topic, and have found a project supervisor (with an academic appointment at Cornell) and another faculty member willing to serve as their advisors. At least one of these must be a member of the Biology & Society major. Applications will be reviewed by a committee headed by the director of undergraduate studies, who will notify students directly of the outcome. Students will be permitted to register for the honors program only by permission of the department. Students must enroll for both the fall and spring semesters. B&SOC 499 is now cross-listed with the College of Agriculture and Life Sciences as ALS 499. Students wishing

to receive CALS credit can sign up for ALS 499. They must attend the honors seminar during the fall semester. More information on the honors program is available in the Biology & Society Office, 306 Rockefeller Hall, 255-6047.

People to contact for Biology & Society honors information:

In Arts and Sciences: Brian Chabot, director of undergraduate studies, bfc1@cornell.edu

In Agriculture and Life Sciences: David Pimentel, faculty representative to CALS Honors Committee, dp18@cornell.edu

In Human Ecology: Nancy Breen, advising coordinator, CHE, neb5@cornell.edu

Further Information

Professor Brian Chabot, director of undergraduate studies and advising coordinator, College of Agriculture and Life Sciences, bfc1@cornell.edu

Dr. Nancy Breen, advising coordinator, College of Human Ecology, neb5@cornell.edu

Susan Sullivan, Biology & Society Advising Office, 306 Rockefeller Hall, 255-6047, sfc1@cornell.edu

web site: www.sts.cornell.edu

I. First-Year Writing Seminars

Consult the John S. Knight Institute web site for times, instructors, and descriptions. Web site: www.arts.cornell.edu/Knight_institute/index.html.

II. Introductory Courses

S&TS 101(1101) Science and Technology in the Public Arena (SBA)

Fall. 3 credits. Recommended as introduction to field. Not required; may not be used to fulfill major requirement. S&TS 101 and 102 can be taken separately or in any order. J. Reppy.

For description, see S&TS listings, S&TS 101.

S&TS 102(1102) Histories of the Future (CA)

Spring. 3 credits. Recommended as an introduction to the field. Not required; may not be used to fulfill a major requirement. S&TS 101 and 102 may be taken separately or in any order. R. Prentice.

For description, see S&TS listings, S&TS 102.

III. Foundation Courses

A. Ethics (one course)

B&SOC 205(2051) Ethical Issues in Health and Medicine (also S&TS 205[2051]) (KCM)

Fall. 4 credits. Limited to 150 students. Not open to freshmen. S. Hilgartner.

In today's rapidly changing world of health and medicine, complex ethical issues arise in many contexts—from the private, interpersonal interactions between doctor and patient to the broad, mass-mediated controversies that make medicine into headline news. This course examines ethical problems and policy issues that arise in contemporary medicine, health care, and biomedical research. Tools for ethical analysis are applied to a variety of cases and fundamental questions in bioethics. Perspectives from social science, history, and law also inform the course. The course explores ethical questions that arise in a

number of substantive contexts, including the doctor-patient relationship, medical decision making near the end of life, human experimentation, genetics and reproductive technology, public health, and the allocation of scarce resources.

B&SOC 206(2061) Ethics and the Environment (also S&TS 206[2061], PHIL 246[2460]) (KCM)

Spring. 4 credits. Limited to 50 students. Open to all undergraduates; freshmen by permission of instructor. Staff.

Aims to acquaint students with moral issues that arise in the context of the environment and environmental policy. Our concerns about the environment bring to our attention the importance of economic, epistemological, legal, political, and social issues in assessing our moral obligations to other humans and the natural world. The attempt is then to explore how different factors come into play in defining our responsibilities to the environment and to examine the grounds for our environmental policy decisions. A background in basic ecology or environmental issues or ethics is helpful.

B. Social Sciences/Humanities Foundation (two courses, one from any two areas)

1. History of Science

HIST 315(3150) Environmental History: The U.S. and the World (also AM ST 349)

Spring. 4 credits. A. Sachs.

For description, see HIST 315.

NTRES 232(2320) Nature and Culture

Spring. 3 credits. J. Tantillo.

For description, see NTRES 232.

NTRES 336(3360) History of Environmental Sciences

Fall. 3 credits. M. Muskett.

For description, see NTRES 336.

S&TS 233(2331) Agriculture, History, and Society: From Squanto to Biotechnology

Fall. 3 credits. M. Rossiter.

For description, see S&TS listings, S&TS 233.

S&TS 282(2821) Science in Western Civilization (also HIST 282[2820])

Spring. 4 credits. P. Dear.

For description, see HIST 282.

S&TS 287(2871) Evolution (also BIOEE 207[2070], HIST 287[2870])

Fall or summer. 3 credits. May not be taken for credit after BIOEE 278.

W. Provine.

For description, see BIOEE 207.

S&TS 355(3551) Computers: From the 17th Century to the Dot.com Boom (also INFO 355[3551], COMM 355[3551])

Fall. 4 credits. S&TS 355 and 356 may be taken separately or in any order.

K. Lambert.

For description, see S&TS listings, S&TS 355.

[S&TS 356(3561) Computing Cultures (also COMM 356[3561], INFO 356[3561], VISS 356[3560])

Spring. 4 credits. S&TS 355 and 356 may be taken separately or in any order. Next offered 2007-2008. P. Sengers or R. Prentice.

For description, see S&TS 356.]

S&TS 433(4331) International History of Science

Spring. 4 credits. M. Rossiter.

For description, see S&TS listings, S&TS 433.

S&TS 444(4441) Historical Issues of Gender and Science (also FGSS 444[4440])

Spring. 4 credits. M. Rossiter.

For description, see S&TS listings, S&TS 444.

S&TS 447(4471) Seminar in the History of Biology (also BIOEE 467[4670], B&SOC 447[4471], HIST 415[4150])

Fall or summer (six-week session). 4

credits. Limited to 18 students. S-U grades optional. W. Provine.

For description and prerequisites, see BIOEE 467.

2. Philosophy of Science

S&TS 201(2011) What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 210[2100])

Spring. 3 credits. K. Lambert.

For description, see S&TS listings, S&TS 201.

S&TS 286(2861) Science and Human Nature (also PHIL 286[2860])

Spring. 4 credits. May be used to meet philosophy of science requirement *if not* used to meet core course requirement.

R. Boyd.

For description, see PHIL 286.

S&TS 381(3811) Philosophy of Science: Knowledge and Objectivity (also PHIL 381[3810])

Fall. 4 credits. R. Boyd.

For description, see PHIL 381.

3. Sociology of Science

B&SOC 301(3011) Life Sciences and Society (also S&TS 301[3011]) (SBA)

Fall. 4 credits. May be used to meet sociology of science requirement *if not* used to meet core course requirement.

M. Lynch.

For description, see "Core Courses," B&SOC 301.

[HD 452(4520) Culture and Human Development

Fall. 3 credits. Next offered 2007-2008.

Q. Wang.

For description, see HD 452.]

NS 245(2450) Social Science Perspectives on Food and Nutrition

Fall. 3 credits. C. Bisogni and J. Sobal.

For description, see NS 245.

D SOC 220(2200) Sociology of Health and Ethnic Minorities (also LSP 220[2200])

Fall. 3 credits. P. Parra.

For description, see D SOC 220.

S&TS 201(2011) What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 210[2100])

Spring. 3 credits. K. Lambert.

For description, see S&TS listings, S&TS 201.

S&TS 311(3111) The Sociology of Medicine

Spring. 4 credits. Not open to freshmen. C. Leuenberger.

For description, see S&TS 311.

S&TS 411(4111) Knowledge, Technology, and Property

Spring. 4 credits. S. Hilgartner.
For description, see S&TS 411.

4. Politics of Science**B&SOC 407(4071) Law, Science, and Public Values (also S&TS 407[4071])**

Spring. 4 credits. M. Lynch.
For description, see S&TS listings, S&TS 407.

[CRP 380(3800) Environmental Politics

Fall. 4 credits. R. Booth.
For description, see CRP 380.]

PAM 230(2300) Introduction to Policy Analysis

Fall. 4 credits. R. Avery and J. Gerner.
For description, see PAM 230.

S&TS 324(3241) Environment and Society (also D SOC/SOC 324[3240])

Fall and spring. 3 credits. C. Geisler and G. Gillespie.
For description, see D SOC 324.

S&TS 391(3911) Science in the American Polity: 1960 to Now (also GOVT 309[3091], AM ST 389[3891])

Spring. 4 credits. S. Hilgartner.
For description, see S&TS 391.

5. Science Communication**COMM 260(2600) Scientific Writing for Public Information**

Fall and spring. 3 credits. Limited to 25 non-freshmen or graduate students per section. Not open to freshmen. S. Conroe.
For description and prerequisites, see COMM 260.

COMM 421(4210) Communication and the Environment

Spring. 3 credits. May be used in Foundation only if not taken as senior seminar. Offered odd-numbered years. J. Shanahan.
For description, see COMM 421.

S&TS 285(2851) Communication in the Life Sciences (also COMM 285[2850])

Spring. 3 credits. B. Lewenstein and S. Conroe.
For description, see COMM 285.

S&TS 352(3521) Science Writing for the Mass Media (also COMM 352[3520])

Fall. 3 credits. B. Lewenstein and S. Conroe.
For description and prerequisites, see COMM 352.

S&TS 466(4661) Public Communication of Science and Technology (also COMM 466[4660])

Spring. 3 credits. Limited to 15 students. May be used in Foundation only if not taken as senior seminar. B. Lewenstein.
For description and prerequisites, see COMM 466.

C. Biology foundation (breadth requirement): Three courses: one from three of the following subject areas:

1. Biochemistry, Molecular and Cell Biology**BIOBM 330(3300) Principles of Biochemistry, Individual Instruction**

Fall and spring. 4 credits. J. Blankenship, P. Hinkle, and staff.
For description and prerequisites, see BIOBM 330.

BIOBM 331(3310) Principles of Biochemistry: Proteins and Metabolism

Fall. 3 credits. May not be taken for credit after BIOBM 330 or 333. G. Feigenson.
For description and prerequisites, see BIOBM 331.

BIOBM 333(3330) Principles of Biochemistry, Lectures

Summer. 4 credits. H. Nivison.
For description and prerequisites, see BIOBM 333.

NS 320(3200) Introduction to Human Biochemistry

Fall. 4 credits. P. Stover.
For description and prerequisites, see NS 320.

2. Ecology**BIOEE 261(2610) Ecology and the Environment**

Fall and summer. 4 credits. Not open to freshmen. Fall, A. Flecker and J. Sparks; summer, A. Vawter.
For description and prerequisites, see BIOEE 261.

BIOSM 364(3640) Field Marine Science

Summer. 6 credits. Taught at the Shoals Marine Laboratory, for more information and application, contact the SML office at G14 Stimson Hall. Staff.
For description and prerequisites, see BIOSM 364.

BIOSM 375(3750) Field Marine Biology and Ecology

Summer. 6 credits. Taught at the Shoals Marine Laboratory, for more information and application, contact the SML office at G14 Stimson Hall. Staff.
For description and prerequisites, see BIOSM 375.

3. Genetics and Development**BIOGD 281(2810) Genetics**

Fall, spring, and summer. 5 credits. Limited to 200 students. Not open to freshmen fall semester. M. Goldberg, T. Fox, R. MacIntyre, and D. Nero.
For description and prerequisites, see BIOGD 281.

BIOGD 282(2820) Human Genetics

Spring. 2 or 3 credits (2 credits if taken after BIOGD 281); must be taken for 3 credits to fulfill Biology & Society requirements. Limited to 25 students per disc. M. Goldberg.
For description and prerequisites, see BIOGD 282.

PL BR 225(2250) Plant Genetics

Spring. 3 credits. M. Mitschler.
For description, see PL BR 225.

4. Evolutionary Biology**BIOEE 278(2780) Evolutionary Biology**

Fall and spring and summer. 3 or 4 credits. Fall, I. Lovette; spring, M. Shulman.
For description, see BIOEE 278.

5. Animal Behavior**BIONB 221(2210) Neurobiology and Behavior I: Introduction to Behavior**

Fall. 3, 4, or 5 credits. C. Walcott.
For description and prerequisites, see BIONB 221.

BIOSM 329(3290) Ecology of Animal Behavior

Summer. 4 credits. Taught at the Shoals Marine Laboratory, for more information, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 329.

6. Neurobiology and Behavior**BIONB 222(2220) Neurobiology and Behavior II: Introduction to Neurobiology**

Spring. 3 or 4 credits. R. Booker and staff.
For description and prerequisites, see BIONB 222.

7. Physiology and Anatomy**BIOAP 311(3110) Introductory Animal Physiology, Lectures (also VTBMS 346)**

Fall. 3 credits. E. Loew and staff.
For description and prerequisites, see BIOAP 311.

8. Biological Diversity**BIOMI 290(2900) General Microbiology Lectures**

Fall, spring, and summer. 2 or 3 credits; must be taken for 3 credits to fulfill major requirement. B. Batzing (summer) and W. Ghiorse.
For description and prerequisites, see BIOMI 290.

BIOPL 241(2410) Introductory Botany

Fall. 3 credits. K. Niklas.
For description, see BIOPL 241.

BIOEE 274(2740) The Vertebrates: Structure, Function, and Evolution

Spring. 4 credits. K. Zamudio.
For description and prerequisites, see BIOEE 274.

[BIOEE 373(3730) Biology of the Marine Invertebrates

Fall. 5 credits. Next offered 2007–2008. D. Harvell and J. Morin.
For description and prerequisites, see BIOEE 373.]

BIOEE 450(4500) Mammalogy (Lecture)

Spring. 3 credits. B. A. McGuire.
For description and prerequisites, see BIOEE 450.

BIOEE 470(4700) Herpetology, Lectures

Spring. 2 credits; must be taken in conjunction with 472 to count for major credit. H. Greene.
For description and prerequisites, see BIOEE 470.

BIOEE 472(4720) Herpetology, Laboratory

Spring. 2 credits; must be taken in conjunction with 470 to count for major credit. Offered alternate years. H. Greene.
For description and prerequisites, see BIOEE 472.

[BIOEE 475(4750) Ornithology

Spring. 4 credits. Next offered 2007–2008. D. Winkler.
For description and prerequisites, see BIOEE 475.]

BIOEE 476(4760) Biology of Fishes

Fall. 4 credits. A. McCune.
For description and prerequisites, see BIOEE 476.

BIOSM 310(3100) Marine Symbiosis

Summer. 4 credits. Taught at the Shoals Marine Laboratory, for more information, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 310.

BIOSM 374(3740) Field Ornithology

Summer. 4 credits. Taught at the Shoals Marine Laboratory, for more information, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 374.

BIOSM 377(3770) Diversity of Fishes

Summer. 4 credits. Taught at the Shoals Marine Laboratory, for more information, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 377.

BIOSM 449(4490) Seaweeds, Plankton, and Seagrass: the Ecology and Systematics of Marine Plants.

Summer. 4 credits. Taught at the Shoals Marine Laboratory, for more information, contact the SML office at G14 Stimson Hall. Staff.

For description and prerequisites, see BIOSM 449.

ENTOM 212(2120) Insect Biology

Fall. 4 credits. C. Gilbert.

For description and prerequisites, see ENTOM 212.

PL PA 301(3010) Plant Disease Management

Fall. 3 credits. M. Milgroom.

For description, see PL PA 301.

PL PA 309(3090) Fungi

Fall. 3 credits. K. Hodge.

For description and prerequisites, see PL PA 309.

9. Nutrition**NS 115(1150) Nutrition, Health, and Society**

Fall. 3 credits. D. Levitsky.

For description, see NS 115.

D. Biology foundation (depth requirement): one course for which one of the above breadth requirement courses (2C) is a prerequisite.

E. Statistics (one course)**AEM 210(2100) Introductory Statistics**

Spring. 4 credits. C. VanEs.

For description and prerequisites, see AEM 210.

BTRY 301(3010) Statistical Methods I

Fall and summer. 4 credits. F. King and staff.

For description and prerequisites, see BTRY 301.

ECON 319(3190) Introduction to Statistics and Probability

Fall and spring. 4 credits. Y. Hong.

For description and prerequisites, see ECON 319.

ILRST 212(2120) Statistical Reasoning

Fall. 3 credits. P. Velleman.

For description, see ILRST 212.

MATH 171(1710) Statistical Theory and Application in the Real World

Fall and spring. 4 credits. Staff.

For description, see MATH 171.

PAM 210(2100) Introduction to Statistics

Fall and spring. 4 credits. K. Joyner, J. Lewis, R. Swisher, and S. Unur.

For description, see PAM 210.

PSYCH 350(3500) Statistics and Research Design

Fall. 4 credits. Staff.

For description, see PSYCH 350.

SOC 301(3010) Evaluating Statistical Evidence (also D SOC 302(3020))

Fall. 4 credits. Limited to Arts and Sciences students. Staff.

For description, see SOC 301.

IV. Core Courses**B&SOC 301(3011) Life Sciences and Society (also S&TS 301(3011)) (SBA)**

Fall. 4 credits. Limited to 50 students.

Prerequisite: two semesters of social science or humanities and one year of introductory biology or permission of instructor. M. Lynch.

Critical thinking about the diverse influences shaping the life sciences. Topics include evolution and natural selection, heredity and genetic determinism, biotechnology, and reproductive interventions. Students interpret episodes, past and present, in biology in light of scientists' historical location, economic and political interests, use of language, and ideas about causality and responsibility. Readings, class activities, and written assignments are designed so that students develop interpretive skills and explore their own intellectual and practical responses to controversies in biology and society.

S&TS 286(2861) Science and Human Nature (also PHIL 286(2860))

Spring. 4 credits. R. Boyd.

For description, see PHIL 286.

V. Themes**A. Natural Science Issues/Biology**

Elective (two courses). Select from the following list of B&SOC approved natural science issues courses or choose course(s) with intro biology as a prerequisite.

B&SOC 214(2141) Biological Basis of Sex Differences (also BIOAP/FGSS 214(2140)) (PBS)

Fall. 3 credits. J. Fortune.

For description, see BIOAP 214.

B&SOC 347(3471) Human Growth and Development: Biological and Behavioral Interactions (also HD/NS 347(3470))

Spring. 3 credits. Offered alternate years.

J. Haas and S. Robertson.

For description and prerequisites, see HD 347.

[BIOEE 275(2750) Human Biology and Evolution (also ANTHR/NS 275(2750))

Fall. 3 credits. Next offered 2007-2008.

K. Kennedy and J. Haas.

For description, see BIOEE 275.]

[BIOEE 673(6730) Human Evolution: Concepts, History, and Theory (also ANTHR 673(6733))

Fall. 3 credits. Next offered 2008-2009.

K. Kennedy.

For description, see BIOEE 673.]

BIO G 305(3050) Basic Immunology

Fall. 3 credits. J. Marsh.

For description, see BIO G 305.

BIOPL 247(2470) Ethnobiology

Fall. 3 credits. Offered alternate years. D. Bates.

For description, see BIOPL 247.

[ENTOM 210(2100) Plagues and People (also B&SOC 210(2101))

Fall. 3 credits. Next offered 2007-2008. L. Harrington.

For description, see ENTOM 210.]

ENTOM 277(2770) Natural Enemies and Invasive Species

Spring. 2-3 credits (Biology & Society students must take 3-credit option). A. Hajek.

For description, see ENTOM 277.

EAS 322(3220) Biogeochemistry of the Hawaiian Islands

Spring. 4 credits. Students must apply via Cornell Abroad for Hawaii program.

L. Derry.

For description, see EAS 322.

EAS 351(3510) Marine Ecosystems Field Course

Spring. 4 credits. Students must apply via Cornell Abroad for Hawaii program.

C. Greene and B. Monger.

For description, see EAS 351.

HD 220(2220) Biological Issues in Human Development: The Human Brain and Mind

Fall. 3 credits. E. Temple.

For description, see HD 220.

HD 266(2660) Emotional Functions of the Brain

Spring. 3 credits. R. Depue.

For description, see HD 266.

HD 320(3200) Human Developmental Neuropsychology: Neurobiology of Human Diseases and Disorders

Spring. 3 credits. E. Temple.

For description, see HD 320.

[HD 344(3440) Infant Behavior and Development

Fall. 3 credits. Not open to freshmen. Next offered 2007-2008. S. Robertson.

For description and prerequisites, see HD 344.]

HD 366(3660) Psychobiology of Temperament and Personality

Fall. 3 credits. R. DePue.

For description and prerequisites, see HD 366.

[HD 433(4330) Developmental Cognitive Neuroscience

Spring. 3 credits. May be used as depth course if BIONB 221 or 222 taken as breadth. Next offered 2007-2008.

E. Temple.

For description, see HD 433.]

HD 337(3370) Language Development (also LING436(4436)/PSYCH/COGST 436(4360))

Spring. 4 credits. B. Lust.

For description, see HD 437.

[NS 222(2220) Maternal and Child Nutrition

Fall. 3 credits. Limited to 25 students. Next offered 2007-2008. P. Brannon.

For description and prerequisites, see NS 222.]

NS 331(3310) Physiological and Biochemical Bases of Human Nutrition

Spring. 4 credits. C. McCormick.

For description and prerequisites, see NS 331.

[NS 361(3610) Biology of Normal and Abnormal Behavior (also PSYCH 361(3610))]

Spring. 3 credits. Prerequisite: junior or senior standing. Next offered 2007–2008. B. Strupp.

For description and prerequisites, see NS 361.]

NS 452(4520) Molecular Epidemiology and Dietary Markers of Chronic Disease

Spring. 3 credits. P. Cassano.

For description and prerequisites, see NS 452.

[NS 475(4750) Mechanisms of Birth Defects]

Spring. 3 credits. Next offered 2007–2008. P. Stover.

For description and prerequisites, see NS 475.]

NTRES 201(2010) Environmental Conservation

Spring. 3 credits. T. Fahey.

For description, see NTRES 201.

NTRES 428(4280) Principles and Practices of Applied Wildlife Science

Spring. 3 credits. M. Richmond, P. Curtis and R. Malecki.

For description, see NTRES 428.

PSYCH 223(2230) Introduction to Biopsychology

Fall. 3 credits. Staff.

For description, see PSYCH 223.

PSYCH 326(3260) Evolution of Human Behavior

Spring. 4 credits. Staff.

For description and prerequisites, see PSYCH 326.

Examples of biology electives

AN SC 300(3000) Animal Reproduction and Development

Spring. 3 credits. J. Parks.

For description, see AN SC 300.

HD 366(3660) Psychobiology of Temperament and Personality

Fall. 3 credits. R. DePue.

For description and prerequisites, see HD 366.

NS 331(3310) Physiological and Biochemical Bases of Human Nutrition

Spring. 4 credits. C. McCormick.

For description, see NS 331.

B. Humanities/Social Science elective (two courses)

Courses listed earlier as social science/humanities foundation courses (2B) are particularly appropriate as social science/humanities electives. However, a single course cannot be used to meet both requirements. Examples of recommended social science or humanities electives are listed below. A more complete list is available in 306 Rockefeller Hall.

Examples of social science electives

AEM 464(4640) Economics of Agricultural Development (also ECON 464(4640))

Fall. 3 credits. R. Christy.

For description, see AEM 464.

[ANTHR 211(2411) Nature and Culture]

Spring. 4 credits. Next offered 2008–2009. S. Sangren.

For description, see ANTHR 211.]

B&SOC 331(3311) Environmental Governance (also S&TS 331(3311), NTRES 331(3310))

Spring. 3 credits. S. Wolf.

For description, see NTRES 331.

[BIOEE 671(6710) Paleoanthropology of South Asia (also ANTHR 671(6371))]

Fall. 3 credits. Next offered 2008–2009.

K. Kennedy.

For description, see BIOEE 671.]

CRP 451(4510) Environmental Law (also CRP 551(5510))

Fall. 4 credits. R. Booth.

For description, see CRP 451.

D SOC 205(2050) Rural Sociology and International Development (also SOC 206(2060))

Spring. 3 credits. P. McMichael.

For description, see D SOC 205.

SOC 410(4100) Health and Survival Inequalities (also D SOC 410(4100), FGSS 410(4100))

Fall. 4 credits. A. Basu.

For description, see SOC 410.

HD 251(2510) Social Gerontology: Aging and the Life Course

Spring. 3 credits. Limited to 60 students.

Highly recommended: HD 250 or equivalent, to be determined by instructor. E. Wethington.

For description, see HD 251.

[HD 336(3360) Connecting Social, Cognitive, and Emotional Development]

Fall. 3 credits. Next offered 2007–2008.

P. Casasola.

For description and prerequisites, see HD 336.]

[HD 362(3620) Human Bonding]

Fall. 3 credits. Next offered 2007–2008.

C. Hazan.

For description, see HD 362.]

HD 370(3700) Adult Psychopathology (also PSYCH 325(3250))

Spring. 3 credits. H. Segal.

For description, see HD 370.

[HD 457(4570) Health and Social Behavior (also SOC 457(4570))]

Fall. 3 credits. Next offered 2007–2008.

E. Wethington.

For description, see HD 457.]

NS 421(4210) Nutrition and Exercise

Spring. 3 credits. Limited to nutrition majors, others by permission of the Instructor. S. Travis.

For description and prerequisites, see NS 421.

NS 450(4500) Public Health Nutrition

Spring. 3 credits. K. Rasmussen and D. Pelletier.

For description and prerequisites, see NS 450.

NS 650(6500) Food and Nutrition Assessment in a Social Context

Fall. 3 credits. D. Pelletier and G. Peltó.

For description and prerequisites, see NS 650.

NTRES 333(3330) Environmental Issues and Indigenous People

Spring. 3 credits. M. Muskett.

For description, see NTRES 333.

NTRES 431(4310) Environmental Strategies

Spring. 3 credits. S. Wolf.

For description, see NTRES 431.

NTRES 435(4350) Tribal Governance and Environmental Policy

Fall. 3 credits. M. Muskett.

For description, see NTRES 435.

PAM 303(3030) Ecology and Epidemiology of Health

Fall. 3 credits. Staff.

For description, see PAM 303.

PAM 350(3500) Contemporary Issues in Women's Health (also FGSS 350(3500))

Fall. 3 credits. A. Parrot.

For description, see PAM 350.

PAM 380(3800) Human Sexuality

Spring. 4 credits. A. Parrot.

For description, see PAM 380.

PAM 435(4350) U.S. Health Care System

Fall. 3 credits. R. Battistella.

For description, see PAM 435.

PAM 437(4370) Economics of Health Policy

Spring. 3 credits. K. Simon.

For description and prerequisites, see PAM 437.

Examples of humanities electives

PHIL 241(2410) Ethics

Fall. 4 credits. N. Sturgeon.

For description, see PHIL 241.

S&TS 481(4811) Philosophy of Science (also PHIL 481/681(4810/6810))

Spring. 4 credits. R. Boyd.

For description, see PHIL 681.]

C. Senior Seminars**B&SOC 420(4201) The Darwinian Scientific Revolution (also S&TS 420(4201)) (HA)**

Fall. 4 credits. K. Lambert.

Looks at the emergence of Darwinism in the social and scientific context of 19th-century industrial Britain, asking how both scientists and a newly emerged mass audience viewed the controversies raised by Darwinian and non-Darwinian theories of evolution. By listening in on these conversations about class, race, sex, and religion, the class explores science as an integral part of the culture and society of the Victorian period.

B&SOC 447(4471) Seminar in the History of Biology (also BIOEE 467(4670), HIST 415(4150), S&TS 447(4471)) (PBS)

Summer. six-week session. 4 credits. W. Provine.

For description, see BIOEE 467.

B&SOC 461(4611) Environmental Policy (also BIOEE/ALS 661) (PBS)

Fall and spring (yearlong); must be started in fall. 3 credits each semester. Limited to 12 students. D. Pimentel.

For description and prerequisites, see BIOEE 661.

B&SOC 471(4711) The Dark Side of Biology: Biological Weapons, Bioterrorism, and Biocriminality (also S&TS 471(4711)) (SBA)

Fall. 4 credits. Prerequisites: at least one course in S&TS and one semester of biology beyond introductory biology. K. Vogel.

Rapid advances in biotechnology, as well as changing social and political climates, have created new public fears that the malicious release of pathogens and toxins by states and/or terrorist groups is a serious threat. Debates have also emerged as to what biological research and publications should be restricted and censored to prevent misuse. The course explores the scientific, social, political, legal, and ethical discussions surrounding historical and current work on dangerous pathogens and toxins. This course also takes a look at the role that the expert and lay communities play in the shaping of popular perceptions and public policies in these threat discussions.

B&SOC 496(4961) History of Medicine in China (also HIST 496(4960) and S&TS 496(4961))

Spring. 4 credits. T. J. Hinrichs.
For description, see HIST 496.

COMM 421(4210) Communication and the Environment

Spring. 3 credits. Offered odd-numbered years. J. Shanahan.
For description, see COMM 421.

CSS 410(4100) Environmental Impacts of Agricultural Biotechnology

Spring. 3 credits. D. Buckley and P. Hobbs.
For description, see CSS 410.

[HD 336(3360) Connecting Social, Cognitive and Emotional Development]

Fall. 3 credits. Next offered 2007-2008. M. Casasola.
For description, see HD 336.]

HD 366(3660) Psychobiology of Temperament and Personality

Fall. 3 credits. R. Depue.
For description and prerequisites, see HD 366.

[HD 418(4180) Aging: Contemporary Issues]

Fall. 3 credits. Next offered 2007-2008. S. Cornelius.
For description, see HD 418.

[HD 419(4190) Midlife Development]

Spring. 3 credits. Next offered 2008-2009. S. Cornelius.
For description, see HD 419.]

HD 432(4320) Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also COGST 432(4320))

FALL. 3 credits. B. Koslowski.
For description, see HD 432.

[HD 464(4640) Adolescent Sexuality (also FGSS 467)]

Fall. 3 credits. Next offered 2007-2008. R. Savin-Williams.
For description, see HD 464.]

HD 468(4680) Stress in Childhood and Adolescence

Spring. 3 credits. J. Eckenrode.
For description, see HD 468.

NS 452(4520) Molecular Epidemiology and Dietary Markers of Chronic Disease

Spring. 3 credits. P. Cassano.
For description, see NS 452.

NTRES 433(4330) Applied Environmental Philosophy

Spring. 4 credits. J. Tantillo.
For description, see NTRES 433.

PAM 552(5520) Health Care Services: Consumer and Ethical Perspectives

Fall. 3-4 credits; if using as senior seminar, B&SOC majors must take for 4 credits. A. Parrot.
For description, see PAM 552.

[PAM 556(5560) Managed Care]

Fall. 3 credits. Next offered 2007-2008. J. Kuder.
For description, see PAM 556.]

PAM 559(5590) Epidemiology, Clinical Medicine, and Management Interface Issues

Spring. 3 credits. Staff.
For description, see PAM 559.

SOC 410(4100) Health and Survival Inequalities (also D SOC 410(4100), FGSS 410(4100))

Spring. 3 credits. A. Basu.
For description, see SOC 410.

S&TS 411(4111) Knowledge, Technology, and Property

Spring. 4 credits. S. Hilgartner.
For description, see S&TS 411.

S&TS 422(4221) New York Women (also FGSS 422(4220), HIST 445(4450))

Fall. 4 credits. M. Rossiter.
For description, see S&TS 422.

S&TS 453(4531) Knowledge and Society (also SOC 453(4530))

Fall. 4 credits. C. Leuenberger.
For description, see S&TS 453.

S&TS 431(4311) From Surgery to Simulation

Spring. 4 credits. R. Prentice.
For description, see S&TS 431.

S&TS 466(4661) Public Communication of Science and Technology (also COMM 466(4660))

Spring. 3 credits. B. Lewenstein.
For description and prerequisites, see COMM 466.

S&TS 468(4681) Understanding Innovation

Fall. 4 credits. J. Reppy.
For description, see S&TS 468.

S&TS 474(4741) Science and Race: A History (also S HUM 404(4040))

Fall. 4 credits. Limited to 15 students. S. Seth.
For description, see S HUM 404.

[S&TS 475(4751) Historical Issues of Science, Technology, Race, and Colonialism]

Fall. 4 credits. Next offered 2007-2008. S. Seth.
For description, see S&TS 475.]

S&TS 476(4761) Historical Issues in Science, Technology and Colonialism (also S HUM 426(4260))

Spring. 4 credits. Limited to 15 students. S. Seth.
For description, see S HUM 426.

[S&TS 490(4901) Integrity of Scientific Practice]

Fall. 4 credits. Next offered 2008-2009. S. Hilgartner.]

[S&TS 495(4951) Social Studies of the Human Sciences]

Spring. 4 credits. Next offered 2007-2008. C. Leuenberger.
For description, see S&TS 495.]

VI. Other Courses

B&SOC 375(3751) Independent Study

Fall or spring. 1-4 credits. Prerequisite: biology and society majors; written permission of faculty supervisor. Projects under the direction of a Biology and Society faculty member are encouraged as part of the program of study within the student's concentration area. Applications for research projects are accepted by individual faculty members. Students may enroll for 1 to 4 credits in B&SOC 375 Independent Study with written permission of the faculty supervisor and may elect either the letter grade or the S-U option. Students may elect to do an independent study project as an alternative to, or in advance of, an honors project. Applications and information on faculty research, scholarly activities, and undergraduate opportunities are available in the Biology and Society Office, 306 Rockefeller Hall. *Independent study credits may not be used in completion of the major requirements.*

B&SOC 499(4991/4992) Honors Project I and II (also ALS 499(4991/4992))

Fall and spring (yearlong). Prerequisite: senior biology and society students by permission of department; overall GPA of 3.3. Students should apply in 306 Rockefeller Hall. Arts and Sciences students should enroll in B&SOC 499 to receive Arts and Sciences credit. CALS students should enroll in ALS 499 to receive College of Agriculture and Life Sciences credit.

Students who are admitted to the honors program are required to complete two semesters of honors project research and to write an honors thesis. The project must include substantial research, and the completed work should be of wider scope and greater originality than is normal for an upper-level course. The student must find a project supervisor and a second faculty member willing to serve as faculty reader; at least one of these must be a member of the Biology and Society faculty.

Students must register for the total credits desired for the whole project each semester (e.g., 8 credits for fall and 8 credits for spring). After the fall semester, students receive a letter grade of "R"; a letter grade for both semesters is submitted at the end of the second semester whether or not the student completes a thesis or is recommended for honors. Minimally, an honors thesis outline and bibliography should be completed during the first semester. In consultation with the advisors, the director of undergraduate studies will evaluate whether the student should continue working on an honors project. Students should note that these courses are to be taken in addition to those courses that meet the regular major requirements.

If students do not complete the second semester of the honors project, they must change the first semester to independent study

to clear the "R" and receive a grade. Otherwise, the "R" will remain on their record and prevent them from graduating.

BURMESE

See "Department of Asian Studies."

CAMBODIAN

See "Department of Asian Studies."

CATALAN

See "Department of Romance Studies."

CENTER FOR APPLIED MATHEMATICS

The Center for Applied Mathematics administers a broadly based interdepartmental graduate program that provides opportunities for study and research over a wide range of the mathematical sciences. This program is based on a solid foundation in analysis, algebra, and methods of applied mathematics. The remainder of the graduate student's program is designed by the student and his or her Special Committee. For detailed information on opportunities for graduate study in applied mathematics, students should contact the director of graduate studies of the Center for Applied Mathematics, 657 Frank H. T. Rhodes Hall.

There is no special undergraduate degree program in applied mathematics. Undergraduate students interested in an application-oriented program in mathematics may select an appropriate program in the Department of Mathematics, the Department of Computer Science, or some department of the College of Engineering.

A listing of selected graduate courses in applied mathematics can be found in the description of the center under "Interdisciplinary Centers, Programs, and Studies."

CENTER FOR INTERNATIONAL STUDIES

See "Interdisciplinary Centers, Programs, and Studies."

CHEMISTRY AND CHEMICAL BIOLOGY

H. D. Abruña, chair (122 Baker Laboratory, 255-4175); G. W. Coates, associate chair; M. A. Hines, director of undergraduate studies; H. D. Abruña, J. Almy, B. A. Baird, T. P. Begley, J. M. Burlitch, B. K. Carpenter, R. A. Cerione, G. Chan, P. J. Chirik, G. W. Coates, D. B. Collum, B. R. Crane, H. F. Davis, F. J. DiSalvo, S. E. Ealick, G. S. Ezra, R. C. Fay, J. H. Freed, B. Ganem, M. A. Hines, R. Hoffmann, P. L. Houston, S. Lee, H. Lin, R. F. Loring, J. A. Marohn, T. McCarrick, J. E. McMurry, J. Njardarson, J. Park, D. Y. Sogah, D. T. McQuade, J. Meinwald, S. Russo, D. A. Usher, B. Widom, C. F. Wilcox, P. T. Wolczanski, D. B. Zax

The Department of Chemistry and Chemical Biology offers a full range of courses in physical, organic, inorganic, analytical, theoretical, bioorganic, and biophysical chemistry. In addition to their teaching interests, chemistry and chemical biology faculty members have active research programs. The link between teaching and research is a vital one in a continuously evolving scientific subject; it ensures that students will be provided with the most advanced information and perspectives and affords opportunities for students to participate in research.

The Major

To fit the widely varying needs of our undergraduate majors, the department offers two different tracks that both lead to the same undergraduate degree:

Standard Major—The standard major provides a comprehensive background in all fields of chemistry. Most students who complete the standard major go on to graduate study in chemistry or to medical school, although some students proceed directly to a position in the chemical industry. With additional independent research (which is not required), the standard chemistry major is fully accredited by the American Chemical Society.

Alternative Major—The alternative major offers a flexible program of study that is primarily designed for students who intend to double major in another field. For example, students majoring in biology can complete the alternative major with little additional class work. This program might also be attractive for students interested in law (especially patent law), as a double major in government or economics plus chemistry is quite feasible. This program is not suited to further graduate work in chemistry. With few exceptions, students in the alternative major are not chosen to participate in the honors program in chemistry. The alternative major is not accredited by the American Chemical Society.

Either version of the major can be completed in three years of study. Most students, however, complete all of the requirements in their first three years with the exception of CHEM 410, Inorganic Chemistry, which is usually taken in the fall semester of the senior year. The typical chemistry course sequence is:

first year: general chemistry and mathematics

second year: organic chemistry, analytical and organic laboratories, and physics

third year: physical chemistry lectures and laboratories

fourth year: inorganic chemistry

Admission to the Major

Admission to the chemistry major requires the satisfactory completion of a number of introductory courses which, when taken together, demonstrate an ability to complete the major. These courses include (1) CHEM 215-216 or 207-208 (CHEM 211 or 206 may be substituted for 207 but this is not recommended); (2) CHEM 300; (3) PHYS 207 or 112 or 116; and (4) MATH 111 or 191. Second-semester sophomores (or beyond) who have completed all but one of these requirements may be admitted to the major provided that they have a plan for completing the major on schedule.

The Standard Major

The following courses must be completed for the standard major:

General chemistry: CHEM 207 + 208 or CHEM 215 + 216. (CHEM 211 or 206 may be substituted for CHEM 207, but is not recommended).

Organic chemistry: CHEM 357 + 358 or CHEM 359 + 360

Physical chemistry: CHEM 389 + 390

Inorganic chemistry: CHEM 410

Laboratory chemistry: CHEM 300 + 301 + 302 + 303

Physics: (PHYS 207 or 112 or 116) + (PHYS 208 or 213).

Mathematics: MATH 111 + 112 + 213 or MATH 121 + 122 + 221 + 222 or MATH 191 + 192 + 293

Most standard majors also perform independent research at some point in their academic career, either during the semester or in the summer. Many students take advanced courses to complement this program.

The Alternative Major

The following courses must be completed for the alternative major:

General chemistry: CHEM 207 + 208 or CHEM 215 + 216. (CHEM 211 or 206 may be substituted for CHEM 207, but is not recommended)

Organic chemistry: CHEM 257 (CHEM 357 + 358 or CHEM 359 + 360 may be substituted)

Physical chemistry: CHEM 287 (CHEM 389 + 390 may be substituted)

Inorganic chemistry: CHEM 410

Laboratory chemistry: CHEM 251 + 290 + 300 (CHEM 301 may be substituted for CHEM 251; CHEM 303 may be substituted for CHEM 290).

Physics: (PHYS 207 or 112 or 116) + (PHYS 208 or 213)

Mathematics: MATH 111 + 112 or MATH 121 + 122 or MATH 191 + 192

One additional 3- or 4- credit advanced chemistry course at the 300 level or above. (CHEM 358, 360 or 390 can be used to satisfy this requirement.)

Three additional course, of 3 or more credits each, that form a cohesive unit and are not at the introductory level. These three courses must be approved by the department committee.

The three additional courses may be in another field of study, such as biochemistry, physics, biology, materials science, economics,

government, or education. Many students who double major use courses from their second major to satisfy this requirement.

Like the standard majors, many alternative majors perform independent research, either in the chemistry department or in another department.

Honors

Any student who completes the requirements for a standard major in chemistry with a cumulative GPA of 3.5 or higher shall be awarded a degree with honors (cum laude).

In addition, senior chemistry majors who have superior grades in chemistry and related subjects and who have had good performance in at least 8 credits of undergraduate research (or the equivalent) in chemistry or a related field (e.g., biochemistry) may be nominated for the honors program. To ensure that the nomination process runs smoothly, all students who are interested in the honors program should discuss this possibility with their advisor early in the fall semester of the senior year. Admission to the honors program is by invitation only. Students completing the alternative major are only eligible for the honors program in exceptional cases.

Students in the honors program participate in the honors seminar (CHEM 498) and write a senior thesis. The successful completion of the honors program leads to the degree of bachelor of arts with honors or high honors in chemistry.

Program for Science Teachers

Chemistry majors who wish to become teachers will be interested to know that Cornell University offers a certification program for teachers of secondary (grades 7-12) science. Interested students apply to the program during their sophomore or junior years. If accepted, students integrate some course work in education with the rest of their undergraduate studies. All chemistry majors who enter this program will remain in the College of Arts and Sciences to complete the major.

After earning the bachelor's degree, certification students enter the graduate field of education to complete a fifth year of study at Cornell. Following this fifth year, students are eligible for a master's degree from Cornell and a teaching certificate from New York State. Additional information is available from Susie Slack, 424 Kennedy Hall, 255-9255, or Professor Deborah Trumbull, 426 Kennedy Hall, 255-3108.

Laboratory Course Regulations

Students registered for laboratory courses who do not appear at the first meeting of the laboratory will forfeit their registration in that course.

Students and members of the teaching staff are required to wear safety goggles and lab aprons in all chemistry laboratories. Closed-toed footwear is required (no sandals). Students are reminded to take their goggles and lab aprons to the first laboratory session. Those who fail to cooperate with the safety program will be asked to leave the laboratories.

Students in organic and analytical labs are required to pay for glassware and any other items broken or missing from their laboratory desks at the close of each semester. Students

who fail to inventory their desks at the appointed time in the presence of their instructor are charged a \$20 fee in addition to charges for any breakage.

Courses

Note: Class meeting times are accurate at the time of publication. If changes occur, the department will provide new information as soon as possible.

Preliminary examinations for all courses may be given in the evening.

CHEM 105(1150) The Language of Chemistry (PBS)

Fall. 3 credits. Contributes to satisfying CALS physical science requirement of one course in chemistry. S-U or letter grades. Lec, M W F; prelims in normal class period. Next offered 2007-2008. J. Meinwald.

In his autobiography, A. Kornberg (Nobel Laureate in Medicine, 1959) wrote, "much of life can be understood in rational terms if expressed in the language of chemistry. It is an international language, a language for all time, a language that explains where we came from, what we are, and where the physical world will allow us to go." Through careful examination of a few milestone investigations of naturally occurring biologically important compounds (e.g., the antimalarial quinine, bombykol, and the sperm attractants of algae), the principles of chemistry to which Kornberg refers are developed. Methods of analyzing chemical problems are emphasized, rather than the memorization of specific results or formulas. There is an opportunity for students, working in small groups, to prepare and present short reports on topics of particular current interest at the interface between chemistry and biology.]

CHEM 106(1160) The World of Chemistry (PBS)

Spring. 3 credits. Contributes to satisfying CALS physical science requirement of one course in chemistry. S-U or letter grades. Lec, M W F; prelims, March 6, April 5. P. Houston.

Chemistry is the art, craft, business, and science of substances and their transformations. At the microscopic level, where chemistry takes place, these substances undergoing transformation are groups of atoms called molecules. The World of Chemistry is a course that looks at the way chemistry occurring on the microscopic level affects all aspects of the everyday world and the way it interacts with culture and the economy. Students will gain a feeling for the way science is done and grasp the interplay of chemistry and biology.

CHEM 206(1560) Introduction to General Chemistry (PBS)

Fall or summer. 4 credits. Limited enrollment. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M, T, W, R, or F; prelims, Sept. 28, Nov. 9. R. Hoffmann.

A one-semester introduction to chemistry, both qualitative and quantitative. CHEM 206 prepares students for CHEM 257; CHEM 206 is not recommended for premedical or preveterinary students; however, students who have never taken a chemistry course in secondary school or who have a very weak preparation sometimes take CHEM 206 + 208.

CHEM 207-208(2070-2080) General Chemistry (PBS)

Fall or summer (207); spring or summer (208). 4 credits each semester. CHEM 207 is a prerequisite for CHEM 208. (CHEM 206 is accepted, but not recommended.) CHEM 207 has a \$20 nonrefundable lab fee which covers cost of safety goggles, lab apron, and breakage. Exceptionally well-prepared students may receive credit for CHEM 207 by demonstrating competence in an examination given once a year before the start of fall classes. Taking CHEM 208 after 215 may be done only by permission of the Director of Undergraduate Studies. Lec, T R; lab, M T W R F; secs, M T W R F; prelims, Oct. 5, Nov. 9, Feb. 27, April 10. Fall: J. A. Marohn/R. F. Loring; spring: H. F. Davis.

Covers fundamental chemical principles, with considerable attention given to the quantitative aspects and techniques important for further work in chemistry.

CHEM 211(2110) Chemistry for the Applied Sciences (PBS)

Fall or spring. 4 credits. Limited enrollment. Prerequisite: high school chemistry or permission of instructor. Corequisite: calculus course at level of MATH 111 or 191. Recommended for students who intend to take only one semester of chemistry. Entering students exceptionally well prepared in chemistry may receive advanced placement credit for General Chemistry by demonstrating competence in the advanced placement examination of the College Entrance Examination Board or in the departmental examination given at Cornell before classes start in the fall. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M T W R F; prelims, Oct. 5, Nov. 9, Feb. 27, Mar. 15. Fall: B. R. Crane; spring: G. K. Chan.

Covers important chemical principles and facts with the objective of understanding the role of chemistry in other fields. Emphasis is on topics such as solid-state materials, periodic trends, and specific classes of compounds, such as polymers and semiconductors.

CHEM 215-216(2150-2160) Honors General and Inorganic Chemistry (PBS)

Fall, 215; spring, 216. 4 credits each semester. Limited enrollment. Prerequisites: two years high school chemistry or permission of instructor, physics, and mathematics. Corequisite: calculus course at level of MATH 111 or 191 for students who have not taken high school calculus; for CHEM 216, CHEM 215. Recommended for students who intend to specialize in chemistry or in related fields. Taking CHEM 208 after CHEM 215 may be done only by permission of director of undergraduate studies. Nonrefundable lab fee (covers cost of safety goggles, lab apron, and breakage): \$20. Lec, M W F; lab, M T W R or F; prelims, Oct. 5, Nov. 9, Feb. 27, Apr. 5. Fall: P. J. Chirik; spring: S. Lee.

Intensive systematic study of the laws and concepts of chemistry, with considerable emphasis on quantitative aspects. First semester covers thermochemistry, kinetics, and equilibrium. Second semester includes systematics of inorganic chemistry. Laboratory work covers qualitative and quantitative

analysis, transition metal chemistry, and spectroscopic techniques.

CHEM 251(2510) Introduction to Experimental Organic Chemistry

Fall, spring, or summer. 2 credits. Limited enrollment. Corequisite: CHEM 257 or 357. Not recommended for chemistry majors considering graduate school in chemistry. Lec, fall, R or F; spring, R; lab, M T W R or F; prelims, fall: Nov. 14; spring: Apr. 26. S. Russo.

Introduction to the synthesis, separation, and handling of materials, including applications of different types of chromatography, simple and fractional distillation, crystallization, extraction, and others.

CHEM 252(2520) Elementary Experimental Organic Chemistry

Spring. 2 credits. Prerequisite: CHEM 251. Lec, T; lab, W, R; prelim, Apr. 27. S. Russo.

Continuation of CHEM 251. Focus is on structural elucidation of organic compounds and synthesis of biologically interesting organic compounds.

CHEM 257(1570) Introduction to Organic and Biological Chemistry (PBS)

Spring or summer. 3 credits. Prerequisite: CHEM 206 or 207. Because CHEM 257 is only a 3-credit course, it does not provide a practical route to satisfying medical school requirements. Because of duplication of materials, students who take both 257 and 357 will receive graduation credit only for CHEM 257. Lec, M W F; prelims, Feb. 15, Mar. 13, Apr. 10. D. A. Usher.

Introduction to organic chemistry with an emphasis on those structures and reactions of organic compounds having particular relevance to biological chemistry.

CHEM 287-288(2870-2880) Introductory Physical Chemistry (PBS)

287, fall; 288, spring. 3 credits each semester. Prerequisites: CHEM 208 or 216 and MATH 111-112 and PHYS 208, or permission of instructor; for CHEM 288, CHEM 287 or 389. Lec, M W F; 287: rec, M or W, T; 288: rec, M or W; prelims: 287: Oct. 5, Nov. 21. 288: Mar. 8 or Apr. 17. Fall: B. Widom; spring: P. Chen.

Survey of the fundamental principles of physical chemistry, focusing in the fall on thermodynamics, chemical and enzyme kinetics, and an introduction to quantum mechanics. In the spring the course is oriented to the application of physical chemistry to biological systems, including statistical mechanics, phenomena in condensed phases, transport, electrochemistry, spectroscopy. CHEM 287 satisfies the minimum requirement for physical chemistry in the alternative chemistry major.

CHEM 290(2900) Introductory Physical Chemistry Laboratory

Fall or spring. 2 credits each semester. Lec, fall, R; spring, R; lab: fall, M T; spring, M T R F. Fall, T. McCarrick; spring, J. H. Freed.

Survey of the methods basic to the experimental study of physical chemistry, with a focus on the areas of kinetics, equilibrium, calorimetry, and molecular spectroscopy.

CHEM 300(3000) Quantitative Chemistry

Fall. 2 credits. Prerequisite: CHEM 208 or 216 or advanced placement in chemistry. Lec, R; lab, M T W R; prelims, Oct. 19. D. B. Zax.

Volumetric, spectrophotometric, and potentiometric methods are emphasized. Techniques are learned by analysis of knowns, and then are used on unknowns. Lectures and problem sets stress the relationship between theory and applications.

CHEM 301(3010) Honors Experimental Chemistry I (PBS)

Spring. 4 credits. Prerequisites: CHEM 300 and 357 or 359. Lec, M W F; 2 labs, M W or T R. D. B. Collum.

Introduction to the techniques of synthetic organic chemistry. A representative selection of the most important classes of organic reactions is explored in the first half of the semester, augmented by lectures on the reaction chemistry and the theory of separation and characterization techniques.

CHEM 302(3020) Honors Experimental Chemistry II (PBS)

Fall. 4 credits. Limited enrollment; priority given to chemistry majors. Prerequisite: CHEM 301. Lec, M W F; 2 labs, M W T R. F. T. McCarrick.

Instrumental methods of analysis, including chemical microscopy, visible and infrared spectroscopies, and gas chromatography. Basic concepts of interfacing are covered.

CHEM 303(3030) Honors Experimental Chemistry III (PBS)

Spring. 4 credits. Limited to 10 students per lab. Prerequisites: CHEM 302, 389, 390; co-registration in latter permissible. Lec, M W F; 2 labs, M W or T R. T. McCarrick.

Introduction to experimental physical chemistry, including topics in calorimetry, spectroscopy, and kinetics. The analysis and numerical simulation of experimental data is stressed.

CHEM 357-358(3570-3580) Organic Chemistry for the Life Sciences (PBS)

Fall or summer, 357; spring or summer, 358. 3 credits each semester. Prerequisite: for CHEM 357, CHEM 208 or 216 or advanced placement; for CHEM 358, CHEM 357 or permission of instructor. Recommended: concurrent registration in CHEM 251 or 300. Because of duplication of material, students who take both CHEM 257 and 357 will receive graduation credit only for CHEM 257. Lec, M W F, optional rec may be offered; prelims, Sept. 21, Oct. 17, Nov. 9, Feb. 15, Mar. 13, Apr. 12. Fall: B. Ganem; spring: D. Y. Sogah.

Study of the more important classes of carbon compounds—especially those encountered in the biological sciences. Emphasizes their three-dimensional structures, mechanisms of their characteristic reactions, their synthesis in nature and the laboratory, methods of identifying them, and their role in modern science and technology.

CHEM 359-360(3590-3600) Honors Organic Chemistry I and II (PBS)

359, fall; 360, spring. 4 credits each semester. Limited enrollment. Prerequisites: CHEM 216 with grade of B or better, CHEM 208 with grade of A or better, or permission of instructor; for CHEM 360, CHEM 359. Recommended: co-registration in CHEM 300-301-302. Recommended for students who intend to specialize in

chemistry or closely related fields. Lec, M W F; disc, W; prelims, Sept. 21, Oct. 17, Nov. 9, Spring: Feb. 15, Mar. 13, Apr. 12. Fall: J. Nardarson; spring, T. P. Begley.

Rigorous and systematic study of organic compounds, their structures, the mechanisms of their reactions, and the ways they are synthesized in nature and in the laboratory.

CHEM 389-390(3890-3900) Honors Physical Chemistry I and II (PBS)

Fall, 389; spring, 390. 4 credits each semester. Prerequisites: MATH 213 or, ideally, 221-222; PHYS 208; CHEM 208 or 216 or permission of instructor; for CHEM 390, CHEM 389. Lec, 389: M W F; rec, M or W or T. Lec, 390: M W F; prelims: 389, Sept. 26, Oct. 24, Nov. 21; 390, Feb. 15, Mar. 13, Apr. 12. Fall, M. A. Hines; spring, 390: G. S. Ezra.

Studies the principles of physical chemistry from the standpoint of the laws of thermodynamics, kinetic theory, statistical mechanics, and quantum chemistry.

CHEM 404(4040) Entrepreneurship in Chemical Enterprise

Spring. 1 credit. Lec, T. B. Ganem.

Designed to acquaint students with the problems of planning, starting, and managing a new scientifically oriented business venture, the course consists of six weekly 90-minute meetings focusing on case studies and assigned reading, as well as outside lectures by entrepreneurs in the chemical, pharmaceutical, and biotechnology industries. Topics include new technology evaluation and assessment, business formation, resource allocation, management development, as well as manufacturing and sales issues.

CHEM 410(4100) Inorganic Chemistry (PBS)

Fall. 4 credits. Prerequisites: CHEM 358 or 360, and 287 or 390. Lec, M W F; prelims, Sept. 19, Oct. 19, Nov. 14. R. C. Fay.

Systematic study of the synthesis, structure, bonding, reactivity, and uses of inorganic, organometallic, and solid-state compounds.

CHEM 421(4210) Introduction to Inorganic Chemistry Research

Fall or spring. 2-4 credits. Prerequisites: CHEM 303 and 389-390, or 287-288, and 289-290 with average of B- or better, or permission of instructor. Selected faculty.

Research in inorganic chemistry involving both laboratory and library work, planned in consultation with a faculty member.

CHEM 433(4330) Introduction to Analytical Chemistry Research

Fall or spring. 2-4 credits. Prerequisites: CHEM 303 and 390 with average of B- or better or permission of instructor. Selected faculty.

Research in analytical chemistry involving both laboratory and library work, planned in consultation with a faculty member.

[CHEM 440(4400) Bio-Inorganic Chemistry (PBS)]

Spring. 3 credits. Prerequisites: CHEM 215-216 or 207-208, 357-358, 359-360 or equivalent. Lec, W F. Next offered 2007-2008. B. R. Crane.

Addresses important aspects of inorganic chemistry in biological systems. Topics include: (1) the distribution and properties of metals in biology; (2) coordination chemistry of biological metals; (3) properties of metal-containing macromolecules; (4) redox processes and long-range electron transfer; (5)

metallocofactors and metal clusters; (6) Lewis acid catalysis; (7) metal-oxygen reactions in biology; and (8) metal trafficking and metalloprotein assembly.]

CHEM 450(4550) Principles of Chemical Biology (I) (PBS)

Fall. 3 credits. Prerequisites: CHEM 357-358, 359-360 or equivalent. Lec, T R. T. Begley.

Covers topics at the interface of chemistry and biology with a focus on problems where organic chemistry has made a particularly strong contribution to understanding the mechanism of the biological system. Topics include the organic chemistry of carbohydrates, proteins and nucleic acids, strategies for identifying the cellular target of physiologically active natural products, combinatorial chemistry, and chemical aspects of signal transduction, cell division and development.

CHEM 461(4610) Introduction to Organic Chemistry Research

Fall or spring. 2-4 credits. Prerequisites: CHEM 302 and 358 or 360 with grade of B- or better or permission of instructor. Selected faculty.

Research in organic chemistry involving both laboratory and library work, planned in consultation with a faculty member.

CHEM 477(4770) Introduction to Physical Chemistry Research

Fall or spring. 2-4 credits. Prerequisite: CHEM 390 with average of B- or better or permission of instructor. Selected faculty.

Research in physical chemistry involving both laboratory and library work, planned in consultation with a faculty member.

CHEM 498(4980) Honors Seminar

Spring. 0 credits. Admission only by department invitation. Additional pre- or corequisites: outstanding performance in two coherent 4-credit units of research in course such as CHEM 421, 433, 461, 477; or equivalent amount of research in another context. Lec W. D. T. McQuade.

We will cover two topics in CHEM 498, writing and oral presentation. The goal is to prepare graduate seniors to communicate well in a competitive scientific world. Students will present their research in writing and through oral presentation.

CHEM 600-601(6000-6010) General Chemistry Colloquium

600, fall; 601, spring. 0 credits. R. Staff.

Series of talks representative of all fields of current research interest in chemistry given by distinguished visitors and faculty members.

CHEM 602(6020) Information Literacy for the Physical Scientist

Spring. 1 credit. Primarily for graduate students and undergraduate chemistry majors doing research. Lec, T. L. Solla.

Introduction to physical science information research methods, with hands-on exploration of print and electronic resources. Much important information can be missed and valuable time wasted without efficient information research strategies. Topics include finding chemical and physical properties, reaction and analytical information; patents, web resources; using specialized resources in chemistry, physics, biochemistry, and materials science; and managing citations.

CHEM 605(6050) Advanced Inorganic Chemistry I: Symmetry, Structure, and Reactivity

Fall. 4 credits. Prerequisite: CHEM 389-390 or equivalent or permission of instructor. Lec, M W F. P. Wolczanski.

Introduction to chemical bonding and applications of group theory, including valence bond theory, and spectroscopy as applied to main group and transition-metal coordination compounds. An introduction to reactivity covers substitution, electron transfer, and related reactions. Readings are at the level of Bishop's *Group Theory and Chemistry* and Jordan's *Reaction Mechanisms of Inorganic and Organometallic Systems*.

[CHEM 606(6060) Advanced Inorganic Chemistry II: Synthesis, Structure, and Reactivity of Coordination Compounds, and Bioinorganic Chemistry]

Spring. 4 credits. Prerequisite: CHEM 605 or equivalent or permission of instructor. Lec, M W F. Next offered 2007-2008. P. T. Wolczanski.

Synthesis, structure, and reactivity of main group and modern coordination compounds and bioinorganic systems. The mechanisms of transition-metal reactions are emphasized, and evaluation of the current literature are stressed. Background readings are at the level of *Reaction Mechanisms of Inorganic and Organometallic Systems* by Jordan.]

CHEM 607(6070) Advanced Inorganic Chemistry III: Solid-State Chemistry

Fall. 4 credits. Prerequisite: undergraduate inorganic chemistry or permission of instructor. Lec, M W F. S. Lee.

Third in a three-semester sequence. Interdisciplinary approach to solids. Topics include solid-state structure and X-ray diffraction, phase diagrams, electronic structure, and physical properties of solids. Texts: Mueller: *Structural Inorganic Chemistry*; Glusker and Trueblood: *Primer on X-ray Crystallography*; and Hoffmann: *Solids and Surfaces*. Readings from inorganic chemistry and solid-state primary literature.

CHEM 608(6080) Advanced Inorganic Chemistry I: Organometallic Chemistry

Spring. 4 credits. M W F. P. T. Wolczanski.

Synthesis, structure, and reactivity of organometallic compounds. Evaluation of the current literature is emphasized, and background readings are at the level of *Reaction Mechanisms of Inorganic and Organometallic Systems* by Jordan and *Principles and Applications of Organotransition Metal Chemistry* by Collman, Hegedus, Finke, and Norton.

[CHEM 622(6220) Chemical Communication]

Fall. 3 credits. Lec, M W F. Next offered 2007-2008. J. Meinwald and T. Eisner.

For description, see BIONB 623.]

CHEM 625(6250) Advanced Analytical Chemistry I

Spring. 4 credits. Prerequisite: CHEM 288 or 390 or equivalent. Lec, M W F; occasional prelims, W. D. B. Zax.

Application of high-resolution NMR spectroscopy to chemical problems. Depending on the time and class interest, either infrared and mass spectroscopy or some practical experience in NMR are offered.

[CHEM 627(6270) Advanced Analytical Chemistry II]

Spring. 3 credits. Primarily for graduate students. Prerequisite: CHEM 793 or equivalent preferable. Lec, M W F. Next offered 2007-2008. D. B. Zax.

Modern techniques in nuclear magnetic resonance. Little overlap is expected with CHEM 625, as this course focuses on more general questions of experimental design, understanding of multipulse experiments, and aspects of coherent averaging theory.]

CHEM 628(6280) Isotopic and Trace Element Analysis (also NS 690[6900])

Fall. 3 credits. Primarily for graduate students and advanced undergraduates. Prerequisite: CHEM 288 or 390 or 302, or CHEM 208 and PHYS 208, or permission of instructor. Lec, T R. Offered alternate years. J. T. Brenna.

Survey course in modern high-precision isotope ratio mass spectrometry (IRMS) techniques and trace/surface methods of analysis. Topics include dual inlet and continuous flow IRMS, thermal ionization MS, inductively coupled plasma MS, atomic spectroscopy, ion and electron microscopies, X-ray and electron spectroscopies, and biological and solid state applications.

[CHEM 629(6290) Electrochemistry]

Spring. 4 credits. Primarily for graduate students and junior and senior undergraduates. Prerequisite: CHEM 390 or equivalent. Recommended: MATH 213. Lec, T R. Next offered 2007-2008. H. D. Abruna.

Fundamentals and applications of electrochemistry. Topics include the fundamentals of electrode kinetics, electron transfer theory, the electrical double layer, diffusion, and other modes of transport.]

CHEM 650-651(6500-6510) Organic and Organometallic Chemistry Seminar

650, fall; 651, spring. 0 credits.

Requirement for graduate students majoring in organic or bioorganic chemistry. Juniors and seniors encouraged to attend. T R. Staff.

Series of talks representative of all fields of current research interest in organic organometallic chemistry, given by research associates, faculty members, and distinguished visitors.

CHEM 665(6650) Advanced Organic Chemistry

Fall. 4 credits. Primarily for graduate students and junior and senior undergraduates. Prerequisites: CHEM 358 or 360, and CHEM 390 or equivalents, or permission of instructor; some knowledge of elementary quantum mechanics. Lec, M W F. D. T. McQuade.

Discussion of the properties and reactivities of organic molecules and the underlying physical phenomena that affect them.

CHEM 666(6660) Synthetic Organic Chemistry

Spring. 4 credits. Primarily for graduate students and upperclass undergraduates. Prerequisite: CHEM 665 or permission of instructor. Lec, T R. J. Njardarson.

Modern techniques of organic synthesis; applications of organic reaction mechanisms and retrosynthetic analysis to the problems encountered in rational multistep synthesis,

with particular emphasis on modern developments in synthesis design.

CHEM 668(6680) Chemical Aspects of Biological Processes

Fall. 4 credits. Prerequisite: CHEM 360 or equivalent. Lec, T R H. Lin.

Examines a representative selection of the most important classes of enzyme-catalyzed reactions from a mechanistic perspective. Topics include the chemical basis of enzymatic catalysis, techniques for the elucidation of enzyme mechanism, cofactor chemistry, and the biosynthesis of selected natural products. The application of chemical principles to understanding biological processes is emphasized.

CHEM 669(6690) Organic and Polymer Synthesis Using Transition Metal Catalysts

Spring. 4 credits. Prerequisite: primarily for graduate students; CHEM 359/360 or equivalent or permission of instructor. G. W. Coates.

Transition metal-based catalysts are invaluable in both organic and polymer synthesis. This course begins with a brief overview of organometallic chemistry and catalysis. Subsequent modules on organic and polymer synthesis are then presented. Topics of current interest are emphasized.

CHEM 670(6700) Fundamental Principles of Polymer Chemistry

Fall. 4 credits. Prerequisite: CHEM 389/390 and 359/360 or equivalent or permission of instructor. Primarily for graduate students and advanced undergraduates. No previous knowledge of polymers required. Lec, T R D. Y. Sogah.

Emphasizes general concepts and fundamental principles of polymer chemistry. The first part of the course deals with general introduction to classes of polymers, molar masses and their distributions, and a brief survey of major methods of polymer synthesis. The second part deals with characterization and physical properties. These include solution properties—solubility and solubility parameters, solution viscosity, molecular weight characterizations (gel permeation chromatography, viscometry, light scattering, osmometry); bulk properties—thermal and mechanical properties; dynamic mechanical properties; and structure-property relationships.

[CHEM 671(6710) Synthetic Polymer Chemistry (also MS&E 671(6710), CHEM 675(6750)]

Spring. 4 credits. Prerequisites: minimum of organic chemistry at level of CHEM 359/360. Students without this organic chemistry background should see instructor before registering. Primarily for graduate students and advanced undergraduates. Recommended: knowledge of material covered in CHEM 670 or MS&E 452. Lec, T R. Next offered 2007–2008. D. Y. Sogah.

Emphasizes application of organic synthetic methods to the development of polymerization methods and control of polymer architecture. Emphasizes modern concepts in synthetic polymer chemistry and topics of current interest: the study of new methods of polymer synthesis, the control of polymer stereochemistry and topology, and the design of polymers tailored for specific uses and properties.]

CHEM 672(6720) Kinetics and Regulation of Enzyme Systems

Spring. 4 credits. Primarily for graduate students with interests in biophysical chemistry. Prerequisite: CHEM 288 or 390, BIONB 331, or equivalents or permission of instructor. Lec, M W F. B. Baird.

Focus is on protein interactions with ligands and consequent changes in structure and activity. Topics include protein structure and dynamics; thermodynamics and kinetics of ligand binding; steady state and transient enzyme kinetics; enzyme catalysis and regulation; and the role of cell membrane receptors in regulating cellular activities.

[CHEM 677(6770) Chemistry of Nucleic Acids]

Fall. 4 credits. Primarily for graduate students. Prerequisites: CHEM 358 or 360, and 390 or equivalents. Lec, M W. Next offered 2007–2008. D. A. Usher.

Structure, properties, synthesis, and reactions of nucleic acids from a chemical point of view. Special topics include RNAi, antisense and antigen technology, ribozyme reactions (including the ribosome), mutagens, PCR, recent advances in sequencing, DNA as a computer, and alternative genetic materials.]

[CHEM 681(6810) Introduction to Quantum Chemistry]

Fall. 4 credits. Prerequisites: one year of undergraduate physical chemistry, three semesters of calculus, one year of college physics. Lec T R. Next offered 2007–2008. G. S. Ezra.

Introduction to the application of quantum mechanics in chemistry. Covers many of the topics in CHEM 793–794 at a more descriptive, less mathematical level.]

CHEM 686(6860) Physical Chemistry of Proteins

Fall. 4 credits. Primarily for graduate students. Prerequisite: CHEM 288 or 390 or equivalents. Letter grades for undergraduate and graduates. Lec, M W F. P. Chen.

Protein studies using physical methods are presented, with focuses on using single molecule spectroscopic methods and on metalloprotein structures/functions. Topics include: (1) physical concepts: chemical structure and conformation of proteins; protein folding energy landscape; electron transfer theory; enzyme kinetics; protein-protein interactions; protein-DNA interactions. (2) Experimental methodologies: absorption/emission spectroscopy; fluorescence resonance energy transfer; confocal microscopy; total internal reflection microscopy; single molecule spectroscopy; time correlated single photon counting; fluorescence correlation spectroscopy; atomic force microscopy; optical/magnetic tweezers. (3) Protein structure and function: oxygen binding and activation proteins; electron transfer proteins; oxygenases and oxidases; metallochaperones; metalloregulatory proteins; green fluorescent proteins; motor proteins (kinesin, dynein and F1-ATPase)

CHEM 700(7000) Baker Lectures

Fall, on dates TBA. 0 credits. Lec, T R.

This year's lecturer: Robert H. Grubbs, California Institute of Technology. Distinguished scientists who have made significant contributions to chemistry present lectures for approximately six weeks.

[CHEM 701(7010) Introductory Graduate Seminar]

Fall. 0 credits. Highly recommended for all senior graduate students in any field of chemistry. Lec, W. Next offered 2007–2008. R. Hoffmann.

Discussion of professional issues facing young chemists as well as life skills: academic and industrial trends, presentations, employment, immigration, publication, research funding, and ethics.]

[CHEM 716(7160) Introduction to Solid State Organic Chemistry]

Spring. 3 credits. Recommended: CHEM 607 or some exposure to or course in solid state chemistry and quantum mechanics; good undergraduate physical chemistry course may be sufficient for quantum theory; PHYS 443 or CHEM 793 or 794 are at substantially higher level than what is needed. Lec, M W F. Next offered 2007–2008. S. Lee.

Examines some principles of crystallography and also electronic structure theory of solids. We then consider properties such as conduction, superconductivity, ferroelectricity and ferromagnetism. The final portion of this course is concerned with structure-property relations.]

[CHEM 765(7650) Physical Organic Chemistry I]

Spring. 4 credits. Primarily for graduate students. Prerequisite: CHEM 665 or permission of instructor. Lec, M W F. Next offered 2007–2008. B. Carpenter.

Explores contemporary tools for calculating molecular structures and energies of species of all sizes. The course uses computers extensively but requires only a limited knowledge of mathematics (mainly linear algebra).]

[CHEM 774(7740) Chemistry of Natural Products: Combinatorial Chemistry]

Spring. 3 credits. Prerequisites: CHEM 360 and BIOBM 330 or equivalent. Lec, M W F. Next offered 2007–2008. T. P. Begley.

Combinatorial chemistry has revolutionized the way organic chemists think about structure function studies on biological systems and the design of inhibitors. This course explores the design, synthesis, screening, and use of natural (i.e., peptide, protein, nucleic acid, carbohydrate) and unnatural (i.e., totally synthetic) libraries.]

CHEM 780(7800) Chemical Kinetics and Molecular Reaction Dynamics

Fall. 4 credits. Prerequisite: CHEM 681 or permission of instructor. Lec, T R. P. L. Houston.

Principles and theories of chemical kinetics and molecular reaction dynamics. Topics include potential energy surfaces, transition state theory, and statistical theories of unimolecular decomposition. Depending on class interest, the course also includes special topics such as surface reactions and photochemistry.

CHEM 787(7870) Mathematical Methods of Physical Chemistry

Fall. 4 credits. Prerequisites: one year of undergraduate physical chemistry, three semesters of calculus, and one year of college physics. Lec, T R. G. S. Ezra.

Provides the mathematical background for graduate courses in physical chemistry, such as quantum mechanics and statistical mechanics, as well as for research in

experimental and theoretical physical chemistry. It includes linear algebra, matrices, and the eigenvalue problem; methods of solution of relevant differential equations; special functions; partial differential equations; integral transforms; functions of a complex variable. The program *Mathematica*® is employed extensively for both analytical and numerical applications. At the level of *Mathematical Methods for Scientists and Engineers* by McQuarrie, and *Mathematical Methods for Physicists* by Arfken and Weber.

CHEM 788(7880) Macromolecular Crystallography (also BIOBM 738(7380))

Fall. 3 credits. Prerequisite: permission of instructor. Lec, T R. S. E. Ealick. Lectures cover the fundamentals of x-ray crystallography and focus on methods for determining the three-dimensional structures of macromolecules. Topics include crystallization, data collection, phasing methods, model building, refinement, structure validation, and structure interpretation.

CHEM 791(7910) Spectroscopy

Fall. 4 credits. Prerequisite: CHEM 793 or PHYS 443 or equivalent. Lec, T R. J. H. Freed.

Molecular Spectroscopy and Magnetic Resonance Spectroscopy are offered alternate years. Molecular Spectroscopy includes: principles of molecular rotational, vibrational, and electronic spectroscopy; interaction of molecules with radiation; Born-Oppenheimer approximation; diatomic molecules; polyatomic molecules; molecular symmetry groups. At the level of *Molecular Rotation Spectra* by Kroto. Magnetic Resonance Spectroscopy includes: quantum mechanics of electron and nuclear spins; Fourier Transform and Two Dimensional experiments; spin relaxation; multiple quantum coherence; imaging. At the level of *The Principles of Magnetic Resonance* by Slichter.

[CHEM 792(7920) Molecular Collision Theory]

Spring. 4 credits. Lec, T R. Next offered 2007-2008. G. S. Ezra. The concepts and methods of scattering theory are described with particular emphasis on applications to problems of chemical interest. At the level of Child's *Molecular Collision Theory* and Taylor's *Scattering Theory*.

CHEM 793(7930) Quantum Mechanics I

Fall. 4 credits. Prerequisites: CHEM 390, co-registration in A&EP 321, or CHEM 787 or equivalents or permission of instructor. Lec, M W F. J. Park.

Topics include Schrodinger's equation, wave packets, uncertainty principle, matrix and operator mechanics, orbital and spin angular momentum, exclusion principle, perturbation theory, and the variational principle. At the level of R. Shankar, *Quantum Mechanics*.

CHEM 794(7940) Quantum Mechanics II

Spring. 4 credits. Prerequisites: CHEM 793 or equivalent and CHEM 787 or equivalent or co-registration in A&EP 322, or permission of instructor. Lec, M W F. J. A. Marohn.

Topics include WKB theory; virial theorems; Born-Oppenheimer approximation; non-crossing rule; non-adiabatic transitions; time-dependent perturbation theory; electromagnetic radiation interacting with matter; density matrices; line shape; scattering

theory; Hartree-Fock and density-functional theories of electronic structure; energy bands in extended structure.

CHEM 795(7950) Statistical Thermodynamics

Fall. 4 credits. Primarily for graduate students. Prerequisite: CHEM 390 or equivalent. Pre- or corequisite: CHEM 681 or 793 or equivalent. Lec, M W F. G. Chan.

Classical thermodynamics at the level of *Thermodynamics and an Introduction to Thermostatistics* by Callen and statistical thermodynamics at the level of the first 12 chapters of *Statistical Mechanics* by McQuarrie. Topics in the first part include the first and second laws, free energy and Legendre transforms, convexity, thermodynamic potentials, densities and fields, phase equilibrium, thermodynamics of dilute systems, and the third law. Topics in the second part include ensembles and partition functions, fluctuations, ideal gases, ideal harmonic crystals and black-body radiation, the third law (again), chemical-equilibrium constants, imperfect gases, and the quantum ideal gases (Fermi-Dirac and Bose-Einstein statistics).

CHEM 796(7960) Statistical Mechanics

Spring. 4 credits. Prerequisites: CHEM 795 and 793 or equivalent. Lec, T R. B. Widom.

Continuation of CHEM 795. Statistical mechanics of interacting systems. Topics include liquid state theory, computational statistical mechanics, critical phenomena, renormalization group theory, and an introduction to nonequilibrium statistical mechanics.

[CHEM 798(7980) Bonding in Molecules]

Spring. 4 credits. Prerequisite: some exposure to quantum mechanics; good undergraduate physical chemistry course or CHEM 681 PHYS 433 or CHEM 793-794 are at substantially higher level than what is needed; students should consult instructor if in doubt. Lec, T R. Next offered 2007-2008. R. Hoffmann.

Aims to build a qualitative picture of bonding in all molecules, including organic, inorganic, organometallic systems and extended structures (polymer, surfaces, and three-dimensional materials.)

CHINA AND ASIA-PACIFIC STUDIES

J. Chen, director (132 McGraw Hall, 255-6262). R. Bush, A. Carlson, Z. Chen, S. Cochran, S. Divo, E. Gunn, P. Katzenstein, W. LaFeber, F. Logevall, T. J. Lowi, J. J. Suh. Affiliated faculty: M. Evangelista, J. Kirshner, J. V. Koschmann, T. Lyons, V. Nee, E. Sanders, M. Shin, E. Tagliacozzo, K. Taylor.

web site: www.einaudi.cornell.edu/caps

China and Asia-Pacific Studies (CAPS) offers a unique approach to the study of China's language, history, politics, society, and foreign relations by providing students with experience both on- and off-campus, including three years in Ithaca, one semester in Washington, D.C., and one semester in Beijing.

The Major

There are no prerequisites to the major. Students are encouraged to take one of the gateway courses, CAPS 282 (GOVT 282) or CAPS 257 (HIST 257), during their first two

years at Cornell, but they may declare the CAPS major before taking either of these or any other CAPS courses. The other required courses are:

- All of the following language courses: CHIN 101-102, 201-202, and 301-302 or CHIN 109-110 for heritage learners or the equivalent for FALCON students (all in Ithaca or Washington before senior year).
- Two of the following lecture courses: CAPS 385/GOVT 385, CAPS 313/HIST 313, CAPS 314/HIST 314, CAPS 352/HIST 352, and CAPS 469/ECON 469.
- All of the following seminars: CAPS 300 and CAPS 500 (during fall of junior year at Cornell in Washington), CAPS 301 and CAPS 302 (during fall of senior year at Peking University), and CAPS 400 (during spring of senior year in Ithaca).

Students interested in the CAPS major should speak to the program director to arrange for a major advisor.

Externships

CAPS majors hold externships in government, business, law, the media, museums, non-governmental organizations, or other organizations during their semesters in Washington, D.C., and Beijing. They are encouraged to coordinate the two experiences. For example, in successive years they might hold externships at the China desk of the *Washington Post* in Washington and the China bureau of the *Washington Post* in Beijing.

Honors

To become a candidate for honors, a CAPS major must maintain a grade average of B+ and have approval for a senior essay proposal from a faculty advisor. During senior year, a CAPS honors student completes the research and writing of a senior essay by taking two tutorials, CAPS 401 in Beijing and CAPS 402 in Ithaca.

Gateway Courses

CAPS 257(2570) China Encounters the World (also HIST 257(2571)) @ (HA)

Fall. 4 credits. J. Chen. This is a lecture and discussion course focusing on how China has encountered the world since the 17th century, with an emphasis on the late 19th and 20th centuries. In particular, it will analyze the age-old Chinese "Central Kingdom" conception and how the conception was challenged during modern times as the result of Western and Japanese incursion and China's inability to deal with the consequences of the incursion. It will further analyze the impact of the Chinese "victim mentality" in order to pursue a deeper understanding of why radical revolutions have dominated China's modern history. While the emphasis of this course is on China's external relations, foreign policy issues will be examined in the context of China's political, economic and social developments in broader terms. The course's purpose is not just to impart information but also to cultivate a basic understanding of the significance of the Chinese experience in the age of worldwide modernization. Grades in this class will be calculated on the basis of class participation, quizzes, midterm and final exams, and one essay assignment.

CAPS 282(2827) China and the World (also GOVT 282(2827)) @ (HA)

Spring. 4 credits. A. Carlson.

This course comes to terms with the dramatic rise of China by reviewing Chinese foreign policy since the establishment of the People's Republic of China. In particular, it concentrates on major developments during the 1980s and 1990s. Such a wide-ranging survey encompasses not only China's relations with its major bilateral partners but also its broader relationship with the international system.

Courses in Ithaca**CHIN 101-102(1101-1102) Elementary Standard Chinese (Mandarin)**

101, fall; 102, spring. 6 credits each semester.

For description, see CHIN 101-102 under "Asian Studies."

CHIN 201-202(2201-2202) Intermediate Standard Chinese (Mandarin)

201, fall; 202, spring. 4 credits each semester.

For description, see CHIN 201-202 under "Asian Studies."

CHIN 301-302(3301-3302) High Intermediate Chinese

301, fall; 302, spring. 4 credits each semester.

For description, see CHIN 301-302 under "Asian Studies."

[CAPS 352(3520) Twentieth Century Asian-American Relations (also HIST 352(3520)) @ (HA)]

Spring. 4 credits. Next offered 2007-2008. J. Chen.

For description, see HIST 352.]

CAPS 385(3857) American Foreign Policy (also GOVT 385(3857)) (SBA)

Spring. 4 credits. J. J. Suh.

For description, see GOVT 385.

[CAPS 314(3140) U.S. Foreign Relations, 1914 to Present (also HIST 314(3140))]

Spring. 4 credits. Next offered 2007-2008. F. Logevall.

For description, see HIST 314.]

[CAPS 400(4000) Senior Seminar on China's Foreign Relations]

Spring. 4 credits. J. Chen. Next offered 2007-2008.]

[CAPS 402(4020) Honors Essay Tutorial]

Spring. 4 credits. See J. Chen about making arrangements with appropriate advisors. Next offered 2007-2008.]

[CAPS 469(4690) China's Economy Under Mao and Deng (also ECON 469(4690))]

Spring. 4 credits. Next offered 2007-2008. T. Lyons.

For description, see ECON 469.]

Courses in Washington, D.C.**CAPS 300(3000) Seminar on American Relations with China (also HIST 339(3391))**

Fall. 4 credits. R. Bush.

A historical review of the fragile and volatile U.S.-China relationship from the opening by Richard Nixon in the early 1970s until the present. Several individual sessions will be led by current or former executive branch or congressional officials, business

people, journalists, representatives of non-governmental organizations and others who have worked in China or have participated in the making of U.S. policy toward China.

CAPS 500(5000) Politics and Policy: Theory, Research, and Practice (also AM ST 501(4998), PAM 406(4998), GOVT 500(4998), ALS 500(4998))

Fall and spring. 8 credits.

For description, see GOVT 500.

CHIN 301(3301) High Intermediate Chinese

Fall. 4 credits.

For description, see CHIN 301 under "Asian Studies."

Courses in Beijing**[CAPS 301(3010) Seminar on China]**

Fall. 4 credits. Next offered 2007-2008.]

[CAPS 302(3020) Survey of Chinese History, Politics, and Foreign Relations]

Fall. 4 credits. Q. Jia. Next offered 2007-2008.]

[CAPS 401(4010) Honors Essay Tutorial]

Fall. 4 credits. See J. Chen about making arrangements with appropriate advisors. Next offered 2007-2008.]

CHINESE

FALCON Program (Chinese)

See Department of Asian Studies.

CLASSICS

J. Rusten, acting chair, L. S. Abel (director of undergraduate studies), F. M. Ahl, C. Brittain (director of graduate studies), K. Clinton, J. E. Coleman, G. Fine, M. Fontaine, G. Holst-Warhaft, T. Irwin, D. Mankin, S. Manning, K. McDonnell, A. Nussbaum, H. Pelliccia, P. Pucci, H. R. Rawlings III, E. Rebillard (acting director of graduate studies, fall), A. Ruppel, B. Strauss. Emeritus: G. M. Kirkwood.

The Department of Classics at Cornell is one of the oldest in the country. It offers both the traditional core training in the languages, literature, philosophy, art, and history of ancient Greece and Rome, and also newer approaches developed from the comparative study of Mediterranean civilizations, peace studies, and feminist and literary theory. The broad range of instruction includes courses offered by professors with appointments in the Departments of History, Philosophy, Comparative Literature, History of Art, Linguistics, and Near Eastern Studies, and in the Programs of Archaeology, Medieval Studies, and Religious Studies.

The department offers a wide variety of classical civilization courses in English translation on such subjects as Greek mythology, ancient mystery religions, early Christianity, and Greek and Roman society; ancient epic, lyric, tragedy, comedy, satire, novels, and love-poetry; Periclean Athens, Republican Rome, the Roman Empire, and Plato, Aristotle, and Hellenistic philosophy. These courses are designed to introduce aspects of classical antiquity to the students

with very divergent primary interests. Courses in art, archaeology, and dendrochronology also have wide appeal. These courses make use of the university's large collections of ancient coins and of reproductions of sculptures, inscriptions, and other ancient objects. For example, since 1976 over 500 Cornell students have worked in the Aegean Dendrochronology Project's laboratory, measuring the annual rings on thousands of samples of wood and charcoal, and using the rings to date structures as old as 7000 BC. In the summers selected students have participated in collecting trips around the eastern end of the Mediterranean (see web site at www.arts.cornell.edu/dendro). Students who wish to gain first-hand archaeological experience may also join one of several summer Cornell-sponsored field projects in Greece and Turkey.

The study of language is a vital part of classics. Offerings range from 100-level classes designed to further the understanding of English through the study of the Latin and Greek sources of much of its vocabulary, to courses in linguistics on the morphology and syntax of the ancient languages, comparative grammar, and Indo-European (the reconstructed source of the family of languages that includes Greek, Latin, Sanskrit, and most modern European languages).

The core function of the department is the study of ancient Greek and Latin. Elementary Greek and Latin are taught in both two-semester courses and intensive summer courses. (For students whose Latin is a bit rusty, the department also offers a rapid, one-semester review class.) Students with a more advanced knowledge of Greek or Latin can choose from a wide selection of courses, from intermediate language classes at the 200 level, which refresh and broaden knowledge of syntax and vocabulary, to graduate and faculty reading groups. All of these courses concentrate on exciting literary texts, whether the poems of Catullus and Virgil, or the dialogues of Plato and Xenophon, at the 200 level, or, in the advanced reading groups, the latest papyrological discoveries, such as the "new" fragments of Empedocles' cosmic poem or the "new" epigrams of Posidippus.

The primary purpose of language instruction is to make possible the study at first hand of the extraordinary range of powerful and challenging ideas embodied in Greek and Latin texts. The department offers undergraduate and graduate seminars on literary, linguistic, historical, and philosophical topics, studied through the Greek and Latin works of authors from Homer (probably from the eighth century BCE) to Boethius (sixth century CE), and occasionally from later writers such as Dante, Petrarch, or Milton. The department strives to adapt its program to the needs of individual students from all disciplines.

Majors in Classics

The major in Classics offers four tracks, which are Greek, Latin, classics, and classical civilization. Only classes passed with a C- or better may be applied to the classics major.

Classics

The classics track requires: (1) six courses in Greek and Latin numbered 201 or above; and (2) three courses in related subjects selected in consultation with the student's departmental

advisor (see below). Classics majors are required to take a minimum of two 300-level courses in one language and one 300-level course in the other.

Students who are considering graduate study in classics are strongly advised to complete the classics major.

Greek

The Greek track requires: (1) GREEK 104; (2) five courses in Greek numbered 201 or above; and (3) three courses in related subjects selected in consultation with the student's departmental advisor (see below). The courses in Greek must include at least three at the 300 level.

Latin

The Latin track requires: (1) LATIN 109 or 205; (2) five courses in Latin numbered 206 or above; and (3) three courses in related subjects selected in consultation with the student's departmental advisor (see below). The courses in Latin must include at least three at the 300 level.

Classical Civilization

The classical civilization track requires: (1a) two 200-level courses in either ancient Greek or Latin or (1b) one course at the 200-level in both ancient Greek and Latin; (2) CLASS 211, 217 or HIST 265; CLASS 212 or HIST 267 and 268; and one course at the 200-level in both ancient Greek or Roman material culture; (3) six additional courses in classical civilization, classical archaeology, ancient history, ancient philosophy, ancient Greek or Latin (at 200-level or above), or related subjects (this last may number up to two).

Related Subjects

Classics is an interdisciplinary field concerned with the study of Mediterranean civilizations from the 15th century BCE to the sixth century CE. Subjects in the field include Greek and Latin language, literature, and linguistics; ancient philosophy, history, archaeology, and art history; papyrology, epigraphy, and numismatics. In addition to the required courses in language and literature, the majors include a requirement for related courses intended to give breadth and exposure to the other disciplines within the field and to enrich the student's study of classical languages and literature. Since the influence of the Greek and Roman world extended far beyond antiquity, a related course may focus on some aspect of the classical tradition in a later period. Students select related courses in consultation with their departmental advisors or the director of undergraduate studies.

Honors

Candidates for the degree of bachelor of arts with honors in classics, Greek, Latin, or classical civilization must fulfill the requirements of the appropriate major and complete the two-semester honors course, CLASS 472. (Credit for the honors course may be included in the credits required for the major.) Candidates for honors must have a cumulative average grade of 3.0 and an average of 3.5 in their major. Students choose an honors advisor by the end of their sixth semester, in consultation with the departmental honors committee or the DUS. By the second week of their seventh

semester, they submit an outline of their proposed research to their advisor and the committee. The thesis is written in the second semester of the course, under the supervision of the student's honors advisor. The level of honors is determined by the committee, in consultation with students' advisors. Copies of successful honors theses are filed with the department. Further details about this program are provided in the brochure *Guidelines for Honors in Classics*, available in the department office, 120 Goldwin Smith Hall, or on the department web page: www.arts.cornell.edu/classics/honors.asp.

Independent Study

Independent study at the 300 level may be undertaken by undergraduates upon completion of one semester of work at the 300 level in the relevant field and only with the permission of the director of undergraduate studies.

Study Abroad

Cornell is associated with four programs that provide opportunities for summer, semester, or yearlong study abroad in Greece and Italy. The American School of Classical Studies at Athens offers a summer program for graduate students and qualified undergraduates; College Year in Athens offers semester-long courses (consult Cornell Abroad for details). The Intercollegiate Center for Classical Studies in Rome provides semester-long courses in Latin, Greek, ancient history, art, archaeology, and Italian; the American Academy in Rome offers both full-year and summer programs for qualified graduate students. The Department of Classics awards several travel grants each year for graduate students from the Townsend Memorial Fund; undergraduates are eligible for the Caplan Travel Fellowships (see "Caplan Fellowships," below). Detailed information on these programs is available in the department office, 120 Goldwin Smith Hall.

Summer Support for Language Study

The Department of Classics has at its disposal resources to assist students who wish to enroll in intensive Latin or Greek in the Cornell summer session. These courses are designed to enable students to enter second-year Latin or Greek the following fall. Preference is given to undergraduate majors in classics and other students needing Latin or Greek for completion of their majors or graduate programs; dyslexic students are accorded additional preference. Two different kinds of support are available: (1) The Kanders-Townsend Prize Fellowship provides a \$3,225 stipend to cover living expenses and full tuition for either CLASS 103 or 107, and is open only to freshman or sophomore classics majors (or potential classics majors) who have already begun one classical language and wish to start the other in the summer. (2) Classics department tuition support is open to Cornell undergraduate and graduate students and provides some level of tuition support, up to the full amount; no stipend for living expenses is offered. Applications are due to the chair of the Department of Classics by March 31. See also "Caplan Fellowships," below.

Placement in Greek and Latin

Placement of first-year undergraduates in Greek and Latin courses is determined by examinations given by the Department of Classics during orientation week. For details concerning these examinations, contact the director of undergraduate studies.

Satisfying the College Language Requirements with Ancient Greek or Latin

Greek: option 1 is satisfied by taking GREEK 201 or above. Option 2 is satisfied by taking either (a) GREEK 101, 102, and 104 or (b) GREEK 103 and 104. (GREEK 103 counts as two courses. Although credits for 103 and 104 add up to only 9, this sequence does satisfy Option 2 of the college's language requirement.)

Latin: option 1 is satisfied by taking LATIN 205 or above. Option 2 is satisfied by taking either (a) LATIN 105, 106 and 109 or (b) LATIN 107 and 109. (LATIN 107 counts as two courses. Although credits for 107 and 109 add up to only 9, this sequence does satisfy Option 2 of the college's language requirement.) The sequence Latin 108-109 does not satisfy Option 2. Students can place into LATIN 205 with an A- or better in LATIN 106, 107 or 108. Upon completing 205, they satisfy Option 1. LATIN 108 overlaps with LATIN 106 therefore cannot be taken (or counted toward the degree) after completing LATIN 106 or 107.

First-Year Writing Seminars

The department offers first-year writing seminars on a wide range of classical and medieval topics. Consult John S. Knight Writing Seminar Program brochures for times, instructors, and descriptions.

Caplan Fellowships

The Harry Caplan Travel Fellowships are awarded annually to one or two outstanding juniors by the College of Arts and Sciences for summer travel or projects in Europe or the Near East. Interested juniors should consult the director of undergraduate studies.

Classical Civilization

CLASS 171(1609) English Words: Histories and Mysteries (also LING 109[1109]) # (HA)

Spring, 3 credits. W. Harbert.
For description, see LING 109.

CLASS 211(2601) The Greek Experience # (CA)

Fall, 3 credits. Limited to 50 students.
F. Ahl.

Introduction to the literature and thought of ancient Greece. Topics include epic and lyric poetry, tragedy and comedy, and historical, political, philosophical, and scientific writings. Some attention is also given to the daily life of ordinary citizens, supplemented by slides of ancient art and architecture.

CLASS 212(2620) The Roman Experience # (CA)

Spring, 3 credits. D. Mankin.
Introduction to the civilization of the Romans as expressed in their literature, religion, and social and political institutions.

CLASS 217(2603) Initiation to Greek Culture # (LA)

Fall. 4 credits. Limited to 18 students. Intended especially for freshmen. Students must apply in writing to chair, Department of Classics, 120 Goldwin Smith Hall. P. Pucci and L. Abel.

Knowledge of Greek or Latin is not necessary, since all texts are in translation. What is necessary is the willingness to participate in three one-hour seminars each week and also a supplementary one- or two-hour session, during which the class participates in workshops with specially invited guests. This course covers a wide range of Greek literary and philosophical works as well as modern critical and philosophical writings on the Greeks. The focus throughout is on the status of language, the many forms of discourse that appear in the literature, and the attempts the Greeks themselves made to overcome the perceived inadequacies and difficulties inherent in language as the medium of poetry and philosophy. The course inquires into the development of philosophy in the context of a culture infused with traditional, mythological accounts of the cosmos. It asks how poetic forms such as tragedy responded to and made an accommodation with philosophical discourse while creating an intense emotional effect on the audience; how the first historians, using literary and philosophical discourse, created space for their own inquiry; and discusses how these issues persist and are formulated in our own thinking.

CLASS 223(2641) The Comic Theater (also THETR 223[2230]) # (LA)

Spring. 3 credits. J. Rusten.

The origins of comic drama in ancient Greece and Rome, and its subsequent incarnations especially in the Italian renaissance (*Commedia erudita* and *Commedia dell'arte*), Elizabethan England, 17th-century France, the English Restoration, and Hollywood in the thirties and forties. Chief topics include the growth of the comic theatrical tradition and conventions; techniques and themes of comic plots (trickster, parody, farce, caricature); and the role of comedy in society. All readings in English.

CLASS 226(2646) Atheism Then and Now (also RELST 226[2646]) # (KCM)

Spring. 3 credits. Limited to 18 students. J. Coleman.

Introduction to atheism, defined as the belief that the entities commonly called gods have no real existence. Begins with the origins of western atheism in ancient Greece. Students then read and discuss a selection of later writings illustrating the historical development of atheism and its relationship with deism, naturalism, and modern science. Students are encouraged to make critical use of some of the extensive resources available on the web at atheist, freethinker, and secular humanist sites. Particular themes considered in class discussions and student presentations include: faith vs. reason as means of knowledge; scientific evidence for and against the existence of divinity; the comparison of nonreligious moral and ethical codes with religious ones; atheist critiques of historical Christian attitudes toward science and slavery; the problem of the existence of multiple exclusive religions; and the positive aspects of atheism. Students must give two oral presentations of particular questions chosen in consultation with the instructor that are subsequently written up as 12-page papers;

two in-class preliminary exams and a final exam.

CLASS 229(2650) War and Peace in Greece and Rome (also HIST 256[2560]) # (HA)

Spring. 4 credits. B. Strauss. For description, see HIST 256.

CLASS 231(2661) Ancient Philosophy (also PHIL 211[2110]) # (KCM)

Fall. 4 credits. T. Irwin. For description, see PHIL 211.

CLASS 236(2604) Greek Mythology (also COM L 236[2360]) # (LA)

Summer and fall. 3 credits. Limited to 50 students in summer; 200 in fall. D. Mankin. Survey of the Greek myths, with emphasis on the content and significance of the myths in Mediterranean society, including the place of myth in Greek life and consciousness; the factors and influences involved in the creation of myths; and the use of myths for our understanding of Greek literature, religion, and moral and political concepts.

[CLASS 237(2607) Greek Religion and Mystery Cults (also RELST 237[2607]) # (CA)

Spring. 3 credits. Next offered 2007–2008. K. Clinton.

A representative variety of cults and their history are studied with special emphasis on mystery cults.]

[CLASS 238(2640) The Ancient Epic and Beyond # (LA)

Spring. 3 credits. Next offered 2007–2008. K. Clinton.

Readings in Greek and Roman epic, and extending to later writers such as Dante, Melville, and Walcott.]

CLASS 258(2682) Periclean Athens (also HIST 258[2580]) # (HA)

Spring. 4 credits. H. R. Rawlings, III. The first five weeks provide a synoptic view of Athens' historical and cultural achievement in the middle of the fifth century BCE—the traditional pinnacle of "The Glory that was Greece." Readings are taken from Greek historians, philosophers, poets, and documentary texts. At least two of the (75-minute) lectures are devoted to art history and delivered by a guest speaker. The next seven to eight weeks follow the course of the Peloponnesian War to its end; readings from Thucydides are interwoven with contemporaneous texts composed by the dramatists (Sophocles, Euripides, and Aristophanes) and the sophists (supplemented with readings from Plato). The remaining classes consider the fate of Socrates and a few other fourth-century developments. The basic aim of the course is to approach an understanding of how and why a vital and creative society came unglued. There are weekly discussion sections.

[CLASS 260(2662) Conceptions of the Self in Classical Antiquity (also PHIL 209[2090]) # (KCM)

Spring. 4 credits. Prerequisites: none. All readings in English. Next offered 2007–2008. C. Brittain.

This course examines a variety of very different conceptions of the self using a range of ancient texts from Greek and Roman literature, medical theory, and philosophy.]

CLASS 265(2650) Ancient Greece from Homer to Alexander the Great (also HIST 265[2650]) # (HA)

Fall. 4 credits. Open to freshmen. B. Strauss. For description, see HIST 265.

CLASS 267(2683) History of Rome I (also HIST 267[2670]) # (HA)

Fall. 4 credits. Open to freshmen. E. Rebillard.

Rome's beginnings and the Roman Republic. A general introduction to Roman history from the foundation of Rome in the middle of the eighth century BC to the end of the Republic (31 BC). The course is the first part of a two-semester survey of Roman history up to the deposition of the last Roman emperor in the West (AD 476). Examines the rise of Rome from a village in Italy to an imperial power over the Mediterranean world and consider the political, economic, and social consequences of that achievement.

CLASS 268(2684) History of Rome II (also HIST 268[2671]) # (HA)

Spring. 4 credits. Open to freshmen. E. Rebillard.

Roman History II: the Roman Empire. This course, the second part of a two-semester survey of Roman history, examines the history of the Roman Empire from the beginnings of the Augustan Principate (31 BC) to the fall of the Western Empire in the fifth century (AD 476). Students consider the creation and development of the imperial regime, explore the various types of challenges (military, cultural, and religious) to the hegemony of the Roman state, and try to understand the transformations of Roman society and culture down to the middle of the fifth century AD.

[CLASS 332(3644) Sages and Saints/ Ancient World (also HIST 338[3644], RELST 332[3644]) # (HA)

Spring. 4 credits. Next offered 2008–2009. E. Rebillard

This seminar considers the continuities and changes in the representations of the holy man, from the sages of classical antiquity to the saints of early Christianity.]

[CLASS 333(3643) Greek and Roman Mystery Cults and Early Christianity (also RELST 333[3643]) # (CA)

Fall. 4 credits. Recommended: classics course (civilization or language) or RELST 101. Next offered 2007–2008. K. Clinton.

After a brief survey of classical mystery cults and Hellenistic religion, the course focuses on Hellenistic and Roman cults.]

CLASS 339(3669) Plato (also PHIL 309[3090]) # (KCM)

Fall. 4 credits. Prerequisite: at least one philosophy course. T. Irwin. For description, see PHIL 309.

CLASS 340(3664) Aristotle (also PHIL 310[3100]) # (KCM)

Spring. 4 credits. T. Irwin. Aristotle's practical and productive works (his *Ethics*, *Politics*, *Rhetoric*, and *Poetics*), with attention to their grounding in his theoretical works.

[CLASS 341(3661) Hellenistic Philosophy (KCM)

Fall. 4 credits. Prerequisite: CLASS 231 or philosophy course. Next offered 2007–2008. C. Brittain.

Topics include scepticism, Stoic and Epicurean psychology of action, theories of

language, concept development and content, determinism and responsibility, virtue ethics, and scientific epistemologies.]

CLASS 345(3645) The Tragic Theater (also COM L 344[3440], THET 345[3450]) # (LA)

Fall. 4 credits. Limited to 40 students.
F. Ahl.

Tragedy and its audiences from ancient Greece to modern theater and film. Topics: origins of theatrical conventions; Shakespeare and Seneca; tragedy in modern theater and film. Works studied include: Aeschylus' *Agamemnon*; Sophocles' *Oedipus Tyrannus*, *Philoctetes*; Euripides' *Alcestis*, *Helen*, *Iphigenia in Aulis*, *Orestes*; Seneca's *Thyestes*, *Trojan Women*; Shakespeare's *Julius Caesar*, *Titus Andronicus*, *Othello*; Strindberg's *The Father*; Dürrenmatt's *The Visit*; Bergman's *Seventh Seal*; Caccyannis' *Iphigenia*.

[CLASS 357(3685) Ancient Athens and Sparta # (HA)]

Spring. 4 credits. Next offered 2007-2008.
L. Abel.

Herodotus and Thucydides tell us much of what we know about Athens and Sparta in the sixth and fifth centuries BC—about the development, flourishing, and disastrous conflict of these two very different emblematic city-states. Students read Herodotus and Thucydides in English translation, compare what they tell us with other evidence (including Aristotle and Xenophon), and analyze their narratives as historical, historiographical, and literary texts. Students attend to how these formative thinkers and writers created an authoritative version of events.]

[CLASS 382(3642) Greeks, Romans, and Victorians # (LA)]

Spring. 4 credits. Next offered 2008-2009.
F. Ahl.

Explores how 19th-century (and especially Victorian English and Irish) poets, dramatists, and to a lesser extent, novelists, present Greco-Roman antiquity.]

CLASS 387(3686) Independent Study in Classical Civilization, Undergraduate Level

Fall and spring. Up to 4 credits.

[CLASS 405(4665) Augustine's Confessions (also RELST 405[4665]) (KCM)]

Spring. 4 credits. Next offered 2008-2009.
C. Brittain.

This course studies Augustine's conception of the mind, focusing on his analysis of memory, desire, and understanding and its relation to Greek and Latin philosophical antecedents.]

CLASS 436(4320) Topics in Ancient Greek History

Spring. 4 credits. Limited to 15 students.
K. Clinton.

Topic: Aristotelian Constitution of Athens.

CLASS 441(4410) Fourth Century and Early History of Greece (also HIST 441[4411]) # (HA)

Fall. 4 credits. B. Strauss. Undergrads and grads will meet for two hours; grad students must stay for one additional hour.

For description, see HIST 441.

[CLASS 442(4662) Topics in Ancient Philosophy (also PHIL 413[4130]) # (KCM)]

Fall. 4 credits. Next offered 2008-2009.

Mind, self, and psychopathology in ancient philosophy.]

CLASS 447 Gender, Sexuality, and the Body in Late Antiquity (also NES 445, RELST 445, FGSS 447)

Fall. 4 credits. K. Haines-Eitzen.
For description, see NES 445.

CLASS 464(4684) Women and Gender in Ancient Greek Literature and Society

Spring. 4 credits. Prerequisites: juniors and seniors with at least one course in ancient Greek history or literature. L. Abel.

Greek literature presents many strong female characters, characters who persevere into our modern culture, and one influential poet of lovely songs, Sappho. On the other hand, Greek law and philosophy (with the important perhaps exception of Plato) define women as less than fully human in bodily, intellectual, and moral capability. Evidence from Greek social history (legal cases, pots, and inscriptions) is contradictory. How can we make sense of these fundamental contradictions and paradoxes? How does attending to gender help us understand ancient Greek literature, ideas, and society? Readings will be in English translation. However, students who can read Greek will be encouraged to make use of their skill, especially in writing their papers.

[CLASS 475(4625) The Christianization of the Roman World, 300 to 600 CE (also RELST 475[4625], HIST 483[4831]) # (HA)]

Fall. 4 credits. Next offered 2008-2009.
E. Rebillard.

Christianization of the Roman world is concerned by the impact of Christianity on the late antique society and by the resistance and/or persistence of the old belief and practices.]

CLASS 545(7345) Graduate TA Training

Fall and spring. 1 credit. Staff.
Pedagogical instruction and course coordination. Requirement for all graduate student teachers of CLASS 105-106 and Classics first-year writing seminars.

CLASS 632(7682) Topics in Ancient History (also HIST 630[6300])

Fall. 4 credits. E. Rebillard.
Topic: Religion and Authority in Late Antique North Africa. Study of the relationship between religious activity and sociopolitical authority in Roman North Africa from the reign of Constantine to the Vandal invasions

CLASS 638(7686) Ancient Warfare (also HIST 638[6360])

Spring. 4 credits. B. Strauss.
A survey of recent theories, methods and publications as well as readings in Greek and Latin. At least one course in ancient history and permission of the instructor, reading knowledge of Greek or Latin.

CLASS 700(9900) Doctoral Dissertation Research

Fall and spring. 0 credits. Letter grades only. Staff.

CLASS 703(7690) Independent Study for Graduate Students in Classical Civilization

Fall and spring. Up to 4 credits.

Greek

GREEK 101(1101) Elementary Ancient Greek I

Fall. 4 credits. A. Ruppel.
Introduction to Attic Greek. Designed to enable the student to read the ancient authors as soon as possible.

GREEK 102(1102) Elementary Ancient Greek II

Spring. 4 credits. Prerequisite: CLASS 101 or equivalent. A. Ruppel.
Continuation of CLASS 101, prepares students for CLASS 104.

GREEK 103(1103) Intensive Greek

Summer. 6 credits. Staff.
Intensive introduction combining the fundamentals of ancient Greek grammar with readings from a variety of classical authors in the original Greek. Prepares students in a single semester for CLASS 104.

GREEK 104(1105) Elementary Ancient Greek III #

Fall. 3 credits. Prerequisites: CLASS 102, 103, or placement by departmental exam.
A. Nussbaum.

Introduces students to reading Greek literary texts (Xenophon's *Anabasis*) and a dialogue of Plato. Covers complex syntax and reviews the grammar presented in CLASS 102 or 103.

GREEK 201(2101) Greek Prose # (LA)

Spring. 3 credits. *Satisfies Option 1.*
Prerequisite: CLASS 104. H. Rawlings III.

[GREEK 202(2105) The Greek New Testament (also RELST 202[2105]) # (LA)]

Spring. 3 credits. Prerequisites: at least one year of ancient Greek (CLASS 101-103 or 104) or permission of instructor. Next offered 2008-2009. E. Rebillard.

Sequel to NES 229/CLASS 215. Selections in Greek from all four gospels, the letters of Paul, and Acts.]

GREEK 203(2103) Homer # (LA)

Spring. 3 credits. *Satisfies Option 1.*
Prerequisite: CLASS 104. D. Mankin.
Readings in the Homeric epic.

[GREEK 204(2104) Euripides: Alcestis # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Next offered 2007-2008. Staff.]

GREEK 301(3101) Greek Epic # (LA)

Spring. 4 credits. *Satisfies Option 1.*
Prerequisite: one 200-level Greek course.
P. Pucci.
Undergraduate seminar.

GREEK 302(3102) Greek Historiography and Oratory # (HA)

Fall. 4 credits. *Satisfies Option 1.*
Prerequisite: one 200-level Greek course.
P. Pucci.
Undergraduate seminar.

[GREEK 303(3103) Undergraduate Seminar: Greek Drama (LA)]

Fall. 4 credits. *Satisfies Option 1.*
Prerequisite: one 200-level Greek course
Next offered 2008-2009. P. Pucci.
Topic: TBA.]

[GREEK 304(3104) Greek Philosophy and Rhetoric: Plato and the Orators (LA)]

Fall. 4 credits. Prerequisite: one 200-level Greek course. Next offered 2007–2008. Staff.

Undergraduate seminar.]

[GREEK 305(3629) Introduction to the New Testament Seminar (also RELST 329(3629))]

Fall. 1 credit. Offers extra credit option for students who have had one year of Greek, to read portions of New Testament and other Christian writings in Greek. Does not count toward classics major requirement as 300-level Greek course. Prerequisite: one year of Greek. Corequisite: enrollment in NES 229/CLASS 215. Next offered 2008–2009.]

[GREEK 310(3110) Special Topics in Greek Literature # (LA)]

Fall and spring. 4 credits. *Satisfies Option 1.* Prerequisite: one 200-level Greek course or permission of instructor. Next offered 2007–2008.]

[GREEK 313(3113) Hellenistic Poetry # (LA)]

Spring. 4 credits. Prerequisite: one 200-level Greek course. Next offered 2008–2009. H. Pelliccia.

The Hellenistic Greek poetry of Callimachus, Theocritus, Apollonius of Rhodes and others is often studied as the bridge between archaic and classical Greek poets and Latin poets such as Catullus, Virgil and Ovid. This course gives consideration to these important interrelationships only after attempting to understand and appreciate the accomplishments of the Hellenistic authors on their own terms.]

[GREEK 316(3116) Greek Prose Composition (LA)]

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: Prerequisites: One 200-level Greek course. and CLASS 104. Next offered 2007–2008. P. Pucci.]

[GREEK 385(3185) Independent Study in Greek, Undergraduate Level]

Fall and spring. Up to 4 credits. Prerequisite: permission of DUS in the case of documented schedule conflict. Staff.

[GREEK 417(4101) Advanced Readings in Greek Literature # (LA)]

Fall. 4 credits. Next offered 2007–2008. Staff.]

[GREEK 418(4102) Advanced Readings in Greek Literature # (LA)]

Spring. 4 credits. Next offered 2008–2009. P. Pucci.

Topic: Greek epic.]

[GREEK 419(4116) Advanced Greek Composition (LA)]

Fall. 4 credits. Prerequisite: CLASS 316 or equivalent. J. Rusten.

[GREEK 605–606(7105–7106) Graduate Survey of Greek Literature]

605, fall; 606, spring. 4 credits each semester. Prerequisite: linguistic proficiency to be determined by instructor. Next offered 2007–2008. Staff.

Survey of Greek literature in two semesters. 605: Greek literature from Homer to the mid-fifth century. 606: Greek literature from the late fifth century to the Empire.]

[GREEK 610(7310) CorHaLi Seminar]

Spring. 2 credits. P. Pucci. Topic: The gods in Hesiod's Theogony.

[GREEK 611(7111) Greek Philosophical Texts (also PHIL 411(4110))]

Fall and spring. Up to 4 credits. Prerequisites: knowledge of Greek and permission of instructor. G. Fine. Readings of Greek philosophical texts in the original.

[GREEK 671(7171) Graduate Seminar in Greek]

Fall. 4 credits. Next offered 2007–2008. Staff. Topic: TBA.]

[GREEK 672(7172) Graduate Seminar in Greek (also HIST 662(6620))]

Fall. 4 credits. H. Rawlings III. Topic: Thucydides.

[GREEK 701(7910) Independent Study for Graduate Students in Greek]

Fall and spring. Up to 4 credits. Was CLASS 701–702.

Latin**[LATIN 105(1201) Elementary Latin I]**

Fall. 4 credits. Staff. Introductory course designed to prepare students to start reading Latin prose at the end of a year. The class moves swiftly and meets daily. Work includes extensive memorization of vocabulary and paradigms; study of Latin syntax; and written homework, quizzes, tests, and oral drills.

[LATIN 106(1202) Elementary Latin II]

Spring. 4 credits. Prerequisite: 105 or equivalent. Staff. Continuation of CLASS 105, using readings from various authors; prepares students for CLASS 109.

[LATIN 107(1203) Intensive Latin]

Summer. 6 credits. Students must register for CLASS 107 and 107.1. Staff. Intensive introduction that quickly instills the essentials of Latin grammar before progressing to readings in the original Latin. Prepares students in a single semester for CLASS 109.

[LATIN 108(1204) Latin in Review]

Fall. 4 credits. Prerequisite: placement by departmental examination. M. Fontaine. Designed to accommodate students who have had some Latin, but are insufficiently prepared to take 106. It begins with review of some material covered in 105 and then continues with second-semester Latin material (106). The class moves swiftly and meets daily. Work includes extensive memorization of vocabulary and paradigms; study of Latin syntax; and written homework, quizzes, tests, and oral drills. Students should be ready for LATIN 109 by the end of the course, but may take LATIN 205 if they pass with A– or better.

[LATIN 109(1205) Elementary Latin III]

Fall and spring. 3 credits. Prerequisites: CLASS 106, 107, 108 or placement by departmental exam. Fall, A. Ruppel; spring, K. Clinton.

Introduces students to reading a literary Latin text (Cicero's *Speeches against Catiline*). Covers complex syntax and reviews the grammar presented in CLASS 106, 107, or 108.

[LATIN 205(2201) Latin Prose # (LA)]

Fall and spring. 3 credits. *Satisfies Option 1.* Prerequisite: CLASS 109 or grade of A– or above in CLASS 106, 107, 108 or placement by departmental exam. Fall, M. Fontaine; spring, A. Ruppel. Fall: reading of Cicero's speech in defense of Milo on a charge of murder, with attention paid to the ancient commentary on the speech by Asconius. Spring: Cicero's philosophical texts—reading selections from “De republica” and “de natura deorum.”

[LATIN 206(2202) Ovid: Erotic Poetry # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Prerequisites: CLASS 109, 205, or placement by departmental exam. Next offered 2007–2008. D. Mankin. Ovid's erotic poetry is relatively easy to translate but rich in its literary structure and influence.]

[LATIN 207(2203) Catullus # (LA)]

Fall. 3 credits. *Satisfies Option 1.* Prerequisite: CLASS 109. Next offered 2007–2008. Staff.

Aims to present the poems of Catullus within their cultural and historical context. The poems are read and translated, and their significance both individually and as products of Late Roman Republican culture discussed in class. Selections from the works of Catullus's contemporaries are assigned in translation.]

[LATIN 208(2204) Roman Drama # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: CLASS 109. M. Fontaine. Topic: Selected Tragedies of Seneca.

[LATIN 209(2205) Virgil # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: CLASS 109. Next offered 2008–2009. Staff.]

[LATIN 210(2206) Roman Letters # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: CLASS 109. Next offered 2007–2008. Staff. Offers an overview of prose letter-writing in the Late Republic and Empire. Selections from the correspondence of Cicero, Seneca, and Pliny are read, translated, and discussed in class. Selections from other authors are assigned in translation. Among other topics, the discussion focuses on the issues of transmission, circulation, and publication of letter-collections, as well as on the political and cultural context in which the letters were written.]

[LATIN 306(3201) Roman Epic # (LA)]

Spring. 3 credits. *Satisfies Option 1.* Prerequisite: 200-level Latin. Next offered 2008–2009 P. Pucci. Undergraduate seminar.]

[LATIN 307(3202) Roman Historiography # (LA)]

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: one semester of 200-level Latin or permission of instructor. H. R. Rawlings, III. Undergraduate seminar. Close reading of several Roman historians, particularly Sallust and Livy. Students will focus upon Latin prose style, Roman historical traditions and historiographical analysis: source criticism, study of narrative technique and the rhetoric of speeches, and appreciation of irony and implied meaning. The course will also touch upon Greek historiographical models.

[LATIN 308(3203) Roman Poetry: Virgil, Eclogues and Georgics (LA)]

3 credits. *Satisfies Option 1.* Prerequisite: one 200-level Latin course. Next offered 2007-2008. Staff.

Undergraduate seminar.]

[LATIN 309(3204) Roman Prose # (LA)]

Fall. 3 credits. *Satisfies Option 1.* Prerequisite: one 200-level Latin course. Next offered 2007-2008. Staff.

Undergraduate seminar.]

[LATIN 314(3205) The Augustan Age # (LA)]

Fall. 4 credits. E. Rebillard. *Satisfies Option 1.* Prerequisites: one semester of 200-level Latin or permission of instructor.

Introduction to the literature of the age of Augustus. Reviews the fall of the Republic, the rise to power of Augustus, and a new political system.]

[LATIN 315(3215) Imperial Latin]

Spring. 4 credits. *Satisfies Option 1.* Prerequisite: one semester of 200-level Latin. M. Fontaine.

Undergraduate Latin seminar. Topic: Roman Satire—Horace, Juvenal, Persius.

[LATIN 317(3217) Latin Prose Composition # (LA)]

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: one semester of 200-level Latin. Next offered 2008-2009. A. Nussbaum.]

[LATIN 386(3286) Independent Study in Latin, Undergraduate Level]

Fall and spring. Variable to 4 credits. Prerequisite: permission of DUS in the case of documented schedule conflict. Staff.

[LATIN 411(4201) Advanced Readings in Latin Literature # (LA)]

Fall. 4 credits. D. Mankin.

Topic: Horace.

[LATIN 412(4202) Advanced Readings in Latin Literature # (LA)]

Spring. 4 credits. C. Brittain.

Topic: Seneca.

[LATIN 413(4213) Survey of Medieval Latin Literature (also MEDVL 413/613[4103/6103], LATIN 613[7213])]

Fall. 3 credits. C. Ruff.

For description, see MEDVL 413.

[LATIN 414(4216) Advanced Latin Prose Composition # (LA)]

Spring. 4 credits. Prerequisite: graduate standing; undergraduates who have completed LATIN 317 and have permission of instructor. Next offered 2007-2008. Staff.]

[LATIN 423(4223) Topics in Medieval Latin Literature (also MEDVL 421/621[4201/6201], LATIN 623[7223])]

Spring. 3 credits. C. Ruff.

For description, see MEDVL 421.

[LATIN 603(7207) Later Latin Literature: Late Antique and Medieval Hagiography]

Spring. 4 credits. Next offered 2007-2008. Staff.]

[LATIN 613(7213) Survey of Medieval Latin Literature (also MEDVL 413/613[4103/6103], LATIN 613[7213])]

Fall. 3 credits. C. Ruff.

For description, see MEDVL 413.

[LATIN 622(7222) Latin Paleography (also MEDVL 612[6102])]

Fall. 3 credits. C. Ruff.

For description, see MEDVL 612.

[LATIN 623(7223) Topics in Medieval Latin Literature (also MEDVL 421/621[4201/6201], LATIN 423[4223])]

Spring. 3 credits. C. Ruff.

For description, see MEDVL 621.

[LATIN 625-626(7205-7206) Graduate Survey of Latin Literature]

625, fall; 626, spring. 4 credits each semester. Prerequisite: linguistic proficiency to be determined by instructor. Next offered 2008-2009. Staff.

Survey of Latin literature in two semesters.]

[LATIN 679(7271) Graduate Seminar in Latin: Catullus and Neoterol]

Fall. 4 credits. M. Fontaine.

A close reading of the Catullan corpus and Neoteric fragments, with special attention to questions of text, imagery, and influence.

[LATIN 680(7272) Graduate Seminar in Latin]

Spring. 4 credits. E. Rebillard.

Topic: Intellectual World of Rome in the Fourth and Fifth Century AD. Through the reading of Latin writings of the fourth and fifth centuries we will study the tensions between the old and the new in the intellectual world of the Roman Empire.

[LATIN 702(7920) Independent Study for Graduate Students in Latin]

Fall and spring. Up to 4 credits. Staff.

Classical Art and Archaeology**[CLASS 220(2700) Introduction to Art History: The Classical World # (HA)]**

Fall. 4 credits. Each student must enroll in a sec. Next offered 2008-2009. Staff.

Overview of the art and archaeology of the Greek and Roman world.]

[CLASS 221(2726) Minoan-Mycenaean Art and Archaeology (also ARKEO 221[2726]) # (CA)]

Spring. 3 credits. Next offered 2007-2008.

J. Coleman.

The birth of civilization in Greece and the Aegean islands during the Bronze Age. The main focus is on the rise and fall of Minoan Crete in Mycenaean Greece, with consideration given to the nature and significance of Aegean interactions with Egypt, the Near East, and Anatolia.]

[CLASS 227(2727) Art and Archaeology in the Ancient Mediterranean World (also ARKEO 228[2727], ART H 227[2227])]

Fall. 4 credits. S. Manning.

This course introduces students to a selection of the major themes and issues in the archaeology and art of the ancient Mediterranean region from the later prehistoric period (the Bronze Age) through to the Roman era. Emphasis is placed on: (i) study of some key evidence and issues from the various periods/contexts; (ii) the history of the field (temporal and intellectual) and the

impact of this on our experience of the past, and (iii) placing material culture into a social and historical context and analysis. The course is divided into the following sections: (a) discovery of the past and the invention of Classical art and archaeology, (b) prehistoric art, archaeology and material culture studies, (c) Greek art and archaeology, (d) Roman art and archaeology.

[CLASS 240(2725) Greek Art and Archaeology # (CA)]

Spring. 3 credits. Next offered 2007-2008. J. Coleman.

Introduction to the material culture of Greece from the Early Iron Age to the coming of the Romans (ca. 1000 BC to 31 BC). Focuses not only on famous monuments such as the Parthenon but also on the evidence for daily life and for contact with other civilizations of the Mediterranean. A critical attitude is encouraged toward the interpretation of archaeological remains and toward contemporary uses (and misuses) of the past.]

[CLASS 256(2756) Practical Archaeology (also ARKEO 256[2756]) (HA)]

Fall. 3 credits. J. Coleman.

Introduction to the aims and methods of field archaeology. Topics include remote sensing (satellite images and aerial photos); surface survey; subsurface investigations by magnetometer, ground penetrating radar; the layout and development of a land excavation; underwater excavations; the collection, description, illustration, and analysis of artifacts and data, such as pottery, lithics, botanical samples, and radiocarbon samples. Hands-on experience with potsherds and other artifacts from prehistoric and Classical Greece and Cyprus in the university's collections is intended to prepare students for work in the field.

[CLASS 321(3721) Mycenae and Homer (also ARKEO 321[3721]) # (HA)]

Fall. 4 credits. Prerequisite: at least one course in archaeology, classics, or history of art. Next offered 2008-2009. J. Coleman.

Studies the relationship between the Mycenaean period of Greece (known primarily from archaeology) and the Homeric *Iliad* and *Odyssey*. Topics include Mycenaean architecture, burial customs, kingship, and military activities; the reasons for the collapse of the Bronze Age palatial economies; the archaeological evidence for society in the "Dark Ages" that followed; the writing systems of Mycenaean Greece (Linear B) and the Iron Age (the Semitic/Greek alphabet); the nature of the Homeric poems and their value as historical sources.]

[CLASS 322(3722) Greeks and Their Neighbors (also ART H 328[3228]) # (HA)]

Fall. 4 credits. Prerequisite: CLASS 220 or 221, or permission of instructor. Next offered 2007-2008. J. Coleman.

Studies the archaeological and other evidence for the interaction between Greek civilization and the peoples of the eastern and western Mediterranean from the 13th to the fourth centuries BCE. Focuses on Greek relationships with Egypt, Phoenicia, Cyprus, Anatolia, and Italy in the post-Bronze Age period.]

[CLASS 325(3725) Greek Vase Painting (also ART H 325[3205]) # (LA)]

Spring. 4 credits. Next offered 2008–2009. Staff.

For description, see ART H 325.]

[CLASS 330(3750) Introduction to Dendrochronology (also ARKEO 309) # (HA)]

Spring. 4 credits. Limited to 10 students.

Prerequisite: permission of instructor. Letter grades only. S. Manning.

Mediterranean and New World applications to archaeology, art-history and environment. Introduction and training in dendrochronology and its applications through participation in a research project dating ancient to modern tree-ring samples from both the Mediterranean and the Upper New York State region. Supervised reading, laboratory/project work, fieldtrip(s) in local area. A possibility exists for summer fieldwork in the Mediterranean.

[CLASS 334(3734) Archaeology of Slavery in the Roman World (also ARKEO 334[3734])]

Spring. 4 credits. K. McDonnell.

This course will examine the archaeological and historical evidence for slavery in the classical world, focusing on the Roman Empire. We will also consider current approaches to slavery in historical archaeology and use comparative evidence from those studies to illuminate the appearance of slaves and freedmen in the archaeological record.

[CLASS 350(3740) Arts of the Roman Empire (also ART H 322[3202]) # (HA)]

Fall. 4 credits. Staff.

For description, see ART H 322.

[CLASS 434(4734) The Rise of Classical Greece (also ARKEO 434[4734]) # (HA)]

Spring. 4 credits. Recommended: CLASS 220 or 221, ART H 220 or 221, or permission of instructor. Next offered 2008–2009. Staff.

For description, see ARKEO 434.]

[CLASS 435(4735) Seminar on Roman Art and Archaeology (also ARKEO 435[4207]) # (CA)]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2008–2009. Staff.

For description, see ART H 427.]

[CLASS 629(7729) The Prehistoric Aegean (also ARKEO 629[7729])]

Fall. 4 credits. Next offered 2007–2008.

J. Coleman.

Seminar with focus on the Aegean and neighboring regions in the Neolithic and Early Bronze Ages.]

[CLASS 630(7750) Seminar in Classical Archaeology (also ARKEO 520[5200], ART H 520[5200])]

Spring. 4 credits. Next offered 2008–2009. P. Kuniholm.

For description, see ARKEO 520.]

[CLASS 705(7970) Independent Study for Graduate Students in Classical Archaeology]

Fall and spring. Up to 4 credits. Staff.

Greek and Latin Linguistics**[CLASS 421(4451) Greek Comparative Grammar (KCM)]**

Spring. 4 credits. Prerequisite: thorough familiarity with morphology of classical Greek. Next offered 2008–2009.

A. Nussbaum.

The prehistory and evolution of the sounds and forms of ancient Greek as reconstructed by comparison with the other Indo-European languages.]

[CLASS 422(4452) Latin Comparative Grammar (also LING 452[4452]) (KCM)]

Fall. 4 credits. Prerequisite: thorough familiarity with morphology of classical Latin. Next offered 2007–2008. M. Weiss.

The prehistory and evolution of the sounds and forms of Classical Latin as reconstructed by comparison with the other Indo-European languages.]

[CLASS 425(4455) Greek Dialects (also LING 455[4455]) (KCM)]

Fall. 4 credits. A. Nussbaum.

Survey of the dialects of ancient Greek through the reading and analysis of representative epigraphical and literary texts.

[CLASS 426(4456) Archaic Latin (also LING 456[4456]) (LA)]

Spring. 4 credits. Prerequisite: reading knowledge of Latin. Next offered 2007–2008. A. Nussbaum.

Reading of epigraphic and literary pre-Classical texts with special attention to archaic and dialectal features. The position of Latin among the Indo-European languages of ancient Italy, the rudiments of Latin historical grammar, and aspects of the development of the literary language.]

[CLASS 427(4457) Homeric Philology (also LING 457[4457]) # (LA)]

Spring. 4 credits. Prerequisite: ability to read Homeric Greek. Next offered 2008–2009. A. Nussbaum.

The language of the Homeric epics: dialect background, archaisms, modernizations. The notion of a *Kunstsprache*: its constitution, use, and internal consistency. The phonological and morphological aspects of epic compositional technique.]

[CLASS 429(4459) Mycenaean Greek (also LING 459[4459]) (LA)]

Spring. 4 credits. Prerequisite: thorough familiarity with morphology of Classical Greek. M. Weiss.

Sanskrit**[CLASS 191–192(1331–1332) Elementary Sanskrit (also LING/SANSK 131–132[1131–1132])]**

191, fall; 192, spring. 4 credits each semester. Next offered 2007–2008.

A. Ruppel.

Introduction to the essentials of Sanskrit grammar. Designed to enable the student to read classical and epic Sanskrit as quickly as possible.]

[CLASS 291–292(2351–2352) Intermediate Sanskrit (also LING/SANSK 251–252[2251–2252]) @ #]

291, fall; 292, spring. 3 credits each semester. *CLASS 291 satisfies Option 1.* Prerequisite: CLASS 192 or equivalent.

A. Ruppel.

Readings from the literature of Classical Sanskrit. Fall: selections from the two Sanskrit epics, the *Mahabharata* and the *Ramayana*. Spring: more selections from the epics, and from either Sanskrit story literature or from Sanskrit dramas.

[CLASS 391(3391) Independent Study in Sanskrit, Undergraduate Level]

Fall and spring. Variable to 4 credits. Staff.

[CLASS 490(4490) Sanskrit Comparative Grammar (also LING 460[4460])]

Fall. 4 credits. Next offered 2007–2008.

A. Nussbaum.

Survey of the historical phonology and morphology of Sanskrit in relation to the Indo-Iranian and Indo-European comparative evidence.]

[CLASS 704(7950) Independent Study for Graduate Students in Sanskrit]

Fall and spring. Variable to 4 credits. Staff.

Honors Courses**[CLASS 472(4720) Honors Course: Senior Essay]**

Fall and spring. 8 credits. Student must choose advisor by end of sixth semester. Topics must be approved by Standing Committee on Honors by beginning of seventh semester.

See "Honors" under Classics front matter.

Related Courses in Other Departments and Programs

See listings under:

Archaeology

Asian Studies

Comparative Literature

English

Feminist, Gender & Sexuality Studies

History

History of Art

Linguistics

Medieval Studies

Near Eastern Studies

Philosophy

Religious Studies

Society for the Humanities

COGNITIVE STUDIES PROGRAM

M. Spivey (psychology), director. G. Gay, J. Hancock (communication); C. Cardie, R. Constable, J. Halpern, D. Huttenlocher, T. Joachims, L. Lee, B. Selman, R. Zabih (computer science); A. Hedge (design and environmental analysis); K. Basu, L. Blume, D. Easley (economics); J. Dunn, R. Ripple, D. Schrader (education); S. Wicker (electrical and computer engineering); C. Brainerd, M. Casasola, S. Ceci, B. Koslowski, B. Lust, V. Reyna, S. Robertson, E. Temple, Q. Wang, E. Wethington, W. Williams (human development); K. O'Connor, J. Russo (Johnson Graduate School of Management); J. Bowers, A. Cohn, M. Diesing, W. Harbert, S. McConnell-Ginet, A. Miller-Ockhuizen, M. Rooth, C. Rosen, Y. Shirai, J. Whitman, D. Zec (linguistics); A. Nerode, R. Shore (mathematics); F. Valero-Cuevas (mechanical and aerospace engineering); R. Harris-Warrick, H. Howland, R. Hoy, C. Linster, H. K. Reeve (neurobiology and behavior); R. Boyd, M. Eklund, C. Ginet, H. Hodes, S. Shoemaker, B. Weatherston (philosophy); M. Christensen, J. Cutting, R. Darlington, T. DeVoogd, D. Dunning, S. Edelman, M. Ferguson, D. Field, B. Finlay, T. Gilovich, M. Goldstein, B. Halpern, A. Isen, R. Johnston, C. Krumhansl, U. Neisser, D. Pizzarro, E. Adkins Regan, M. Spivey (psychology); M. Macy (sociology). R. Canfield, S. Hertz (associate members).

Cognitive Studies comprises a number of disciplines that are linked by a major concern with fundamental capacities of the mind, such as perception, memory, reasoning, language, the organization of motor action, and their neural correlates. In the College of Arts and Sciences these disciplines are represented in the departments of Computer Science, Economics, Linguistics, Mathematics, Neurobiology and Behavior, Philosophy, Psychology, and Sociology. Elsewhere in the university they are represented in the Departments of Computer Science, Mechanical and Computer Engineering, and Mechanical and Aerospace Engineering (College of Engineering), the Departments of Design and Environmental Analysis and Human Development (College of Human Ecology), the Departments of Communication and Education (College of Agriculture and Life Sciences), the Information Science Program, and the Johnson Graduate School of Management.

The issues addressed in Cognitive Studies arise at several levels. At the broadest level are problems of characterizing such basic notions as "mind," "knowledge," "information," and "meaning." At a more specific level are questions regarding the abstract operating principles of individual components of the mind, such as those underlying visual perception, language ability, and understanding of concepts. These principles concern the organization and behavior of the components and how they are biologically represented in the brain. At the most specific level are questions about the properties of the elementary computational structures and processes that constitute these components.

Important insights into issues of these kinds have been achieved in recent years as a result of the various Cognitive Studies disciplines converging in their theoretical and methodological approaches. It is this

convergence, in fact, that warrants grouping the disciplines together under the single term "Cognitive Studies." Even greater progress can be expected in the future as a consequence of increasing cooperation among the disciplines.

Undergraduate Concentration

An interdisciplinary undergraduate concentration in Cognitive Studies is available to Cornell University undergraduates in the College of Arts and Sciences. Students from other colleges who seek such a concentration should discuss such possibilities with the Cognitive Studies office, which will provide information and contacts concerning such concentrations.

The undergraduate concentration in Cognitive Studies is designed to enable students to engage in a structured program directly related to the scientific study of cognition and the mind. The concentration provides a framework for the design of structured, supervised programs of study in this growing interdisciplinary field. Such programs of study serve as complements to course work in a single discipline as represented by an individual department. It is considered crucial that students gain a strong background in their major, independent of their work in the concentration. Independent majors and college scholars may also apply. Colleges vary in their procedures for formal recognition of this concentration (contact the Cognitive Studies office for details). The Cognitive Studies Program faculty have designed five structured "tracks" that offer students different ways of satisfying the concentration. In addition, students are always able to construct their own programs of study subject to approval by their concentration advisor. The courses listed under each track are program suggestions. The student should consult with his or her Cognitive Studies advisor to develop a more customized curriculum. In some cases, students may want to combine or cross tracks.

In general, it is expected that students in the concentration will take COGST 101 or COGST 214 as their introductory course requirement; either COGST 412, COGST 416, COGST 450, or COGST 470 as their lab course requirement; and three courses at the 300 and 400 level in at least two departments (or certain suitable 200-level courses by petition). Courses are to be chosen by student and advisor to provide a coherent program. Even though only five courses are required to complete the concentration, we assume students interested in Cognitive Studies will often end up taking more. An independent research project (e.g., COGST 470 if this is not used to satisfy the lab requirement) and a research workshop (COGST 471) are encouraged. Please note: minor modifications to this outline may be made in extenuating circumstances by the advisor, in consultation with the program director.

The five typical tracks are as follows. Note that many of these courses have substantial prerequisites.

1. Perception and Cognition

This track focuses on psychological, computational, and neurobiological approaches to the interface between perception and cognition. Students will develop a grasp of the continuum between sensory impressions and complex thought.

COGST 101/COM S 101/LING 170/PHIL 191/PSYCH 102 Introduction to Cognitive Science
COGST/COM S/PSYCH 201 Cognitive Science in Context Laboratory
COGST/PSYCH 214 Cognitive Psychology
COGST/PSYCH 231 Borges and I: A Quest for Self-Knowledge
COGST/PSYCH 342 Human Perception: Applications to Computer Graphics, Art, and Visual Display
COGST/PSYCH 416 Modeling Perception and Cognition
COGST 450/HD 437/LING 450/PSYCH 437 Lab Course: Language Development
BIONB 326 The Visual System
PSYCH 305 Visual Perception
PSYCH 316 Auditory Perception
PSYCH 412 Laboratory in Cognition and Perception
PSYCH 418 Psychology of Music
PSYCH 419 Neural Networks Laboratory
COGST 465/COM S 392/PSYCH 465 Topics in High-Level Vision

2. Language and Cognition

This track focuses on the representation, processing, and acquisition and learning of language, as well as its role in cognition and culture. Students will acquire skills and knowledge in formal and applied linguistic theory, psycholinguistic experimentation, and computational modeling techniques.

COGST 101/COM S 101/LING 170/PHIL 191/PSYCH 102 Introduction to Cognitive Science
COGST/COM S/PSYCH 201 Cognitive Science in Context Laboratory
COGST/PSYCH 214 Cognitive Psychology
COGST/LING/PSYCH 215 Psychology of Language
COGST/PSYCH 416 Modeling Perception and Cognition
COGST/PSYCH 427 Evolution of Language
COGST/LING/PSYCH 428 Connectionist Psycholinguistics
COGST/HD 434 Current Topics in Cognitive Development
COGST 436/HD 436/LING 436/PSYCH 436 Language Development
COGST 450/HD 437/LING 450/PSYCH 437 Lab Course: Language Development
COM S 411 Programming Languages and Logics
LING 203 Introduction to Syntax and Semantics
LING 301-302 Phonology I and II
LING 303-304 Syntax I and II
LING 309 Morphology
LING 319-320 Phonetics I and II
LING 325 Pragmatics
LING 403 Introduction to Applied Linguistics
LING 421-422 Semantics I and II
PHIL 332 Philosophy of Language
PSYCH 415 Concepts, Categories, and Word Meanings

3. Cognition and Information Processing

This track focuses on how the mind (or a computer) can encode, represent, and store information. Students will develop an understanding of concepts, categories, memory, and the nature of information itself.

COGST 101/COM S 101/LING 170/
PHIL 191/PSYCH 102 Introduction to
Cognitive Science
COGST/COM S/PSYCH 201 Cognitive
Science in Context Laboratory
COGST/PSYCH 214 Cognitive Psychology
COGST/PSYCH 414 Comparative
Cognition
COGST/PSYCH 416 Modeling Perception
and Cognition
COGST/HD 334 The Growth of the Mind
COGST/HD 432 Cognitive, Social, and
Developmental Aspects of Scientific
Reasoning
COGST 450/HD 437/LING 450/PSYCH
437 Lab Course: Language Development
COM S 211 Computers and Programming
COM S 212 Structure and Interpretation of
Computer Programs
COM S 472 Foundations of Artificial
Intelligence
COM S 473 Practicum in Artificial
Intelligence
PSYCH 311 Introduction to Human
Memory
PSYCH 412 Laboratory in Cognition and
Perception
PSYCH 413 Information Processing:
Conscious and Nonconscious
PSYCH 415 Concepts, Categories, and
Word Meanings
PSYCH 417 The Origins of Thought and
Knowledge

4. Cognitive Neuroscience

This track focuses on neurobiological and computational approaches to understanding how perception and cognition emerge in the human brain. Students will acquire knowledge of what neural structures subserve what perceptual/cognitive processes, and how they interact.

COGST 101/COM S 101/LING 170/PHIL
191/PSYCH 102 Introduction to
Cognitive Science
COGST/COM S/PSYCH 201 Cognitive
Science in Context Laboratory
COGST/PSYCH 214 Cognitive Psychology
COGST/HD 220 The Human Brain and
Mind
COGST/BIONB/PSYCH 330 Introduction
to Computational Neuroscience
COGST/PSYCH 416 Modeling Perception
and Cognition
COM S 401 Programming Languages and
Software Engineering
PSYCH 332/BIONB 328 Biopsychology of
Learning and Memory
PSYCH/BIONB 396 Introduction to
Sensory Systems
PSYCH 419 Neural Networks Laboratory
PSYCH 425 Cognitive Neuroscience
PSYCH 440 The Brain and Sleep

5. Independent Study

With approval from the Cognitive Studies undergraduate curriculum committee, a student and advisor in the Cognitive Studies program can arrange their own unique collection of courses that do not belong to the above categories for satisfying the concentration requirements.

COGST 470 Undergraduate Research in
Cognitive Studies
COGST 471 Cognitive Studies Research
Workshop

A Cognitive Studies undergraduate laboratory and computer facility is available for all students in a Cognitive Studies concentration. This facility will help link resources from different laboratories across the Cornell campus as well as providing a central location for developing and conducting experimental research in Cognitive Studies.

Students who complete the concentration requirements will have their concentration in Cognitive Studies officially represented on their transcript. In addition, students who have made substantial progress toward completing the requirements for the concentration will be eligible for enrollment in the graduate courses in Cognitive Studies during their senior year.

Concentration Application Procedures. Initial inquiries concerning the undergraduate concentration should be made to the Cognitive Studies Program coordinator, Julie Simmons-Lynch, cogst@cornell.edu, 255-6431, who will provide application materials and set up a meeting with a relevant member of the Undergraduate Concentration Committee. This committee will assist the student in selecting a concentration advisor with expertise in the student's main area of interest.

To formally initiate the concentration in Cognitive Studies, a student must gain approval for a selection of courses from a concentration advisor (one of the program faculty). The courses selected must form a coherent cluster that makes sense to both the advisor and the student. To be admitted to the concentration, the student must submit this plan of study to the Cognitive Studies undergraduate faculty committee for final approval.

In addition to assisting in and approving the student's selection of courses, the concentration advisor serves as a general source of information about the field of Cognitive Studies, relevant resources around the university, and job and graduate school opportunities. Often, the advisor can help the student develop independent research experience.

Independent Research. The concentration encourages each student to be involved in independent research that bears on research issues in Cognitive Studies, if possible. COGST 470 is available for this purpose. It is recommended that students report on their research activities in an annual undergraduate forum. The Undergraduate Concentration Committee is committed to helping students find an appropriate research placement when needed.

The Committee for Undergraduate Concentration in Cognitive Studies consists of: Bart Selman, Computer Science, 255-5643, 4144 Upson Hall, selman@cs.cornell.edu; Draga Zec, linguistics, 255-0728, 217 Morrill Hall, DZ17@cornell.edu; Michael Spivey, psychology, 255-9365, 238 Uris Hall, spivey@cornell.edu. The current director of undergraduate studies is Draga Zec.

Graduate Minor

Entering graduate students, as well as advanced undergraduates, who are interested in cognition and in the cognitive sciences are advised to take the introductory course COGST 101 Introduction to Cognitive Science in the fall semester. Enrolling in the 4-credit version, which involves a weekly section

meeting with the instructor, will satisfy the introductory course requirement.

Graduate students minoring in Cognitive Studies will take additional courses recommended by their graduate committee to complete their course requirements.

For more information, consult the program office (278G Uris Hall, 255-6431, cogst@cornell.edu) or the director of graduate studies, Michael Spivey (255-9365, spivey@cornell.edu).

Courses

Cognitive Studies

COGST 101(1101) Introduction to Cognitive Science (also COM S 101[1710], LING 170[1170], PHIL 191[1910], PSYCH 102[1200]) (KCM)

Fall. 3 or 4 credits; 4-credit option involves writing section instead of exams.

M. Spivey.

Surveys the study of how the mind/brain works. Examines how intelligent information processing can arise from biological and artificial systems. Draws primarily from five disciplines that make major contributions to cognitive science: philosophy, psychology, neuroscience, linguistics, and computer science. The first part of the course introduces the roles played by these disciplines in cognitive science. The second part focuses on how each of these disciplines contributes to the study of five topics in cognitive science: language, vision, learning and memory, action, and artificial intelligence.

COGST 111(1110) Brain, Mind, and Behavior (also BIONB/PSYCH 111[1110]) (PBS)

Spring. 3 credits. Intended for freshmen and sophomores in humanities and social sciences; seniors not allowed. Not recommended for psychology majors; biology majors may not use course for credit toward major. Letter grades only.

R. Hoy and E. Adkins Regan.

Understanding how the brain creates complex human behavior and mental life is a great scientific frontier of the next century. This course enables students with little scientific background from any college or major to appreciate the excitement. What are the interesting and important questions? How are researchers trying to answer them? What are they discovering? Why did the brain evolve this remarkable capacity?

COGST 172(1720) Computation, Information, and Intelligence (also COM S/ENGRI/INFO 172[1700]) (MQR)

Fall. 3 credits. Prerequisite: some knowledge of calculus. Staff.

Introduction to computer science using methods and examples from the field of artificial intelligence. Topics include game playing, search techniques, learning theory, computer-intensive methods, data mining, information retrieval, the web, natural language processing, machine translation, and the Turing test. This is not a programming course; rather, "pencil and paper" problem sets are assigned. Not open to students who have completed the equivalent of COM S 100.

COGST 201(2010) Cognitive Science in Context Laboratory (also COM S 201[2710], PSYCH 201[2010]) (KCM)

Spring. 4 credits. Limited to 24 students. Prerequisite: COGST 101/COM S 101/LING 170/PHIL 191/PSYCH 102. Knowledge of programming languages not assumed. D. Field and staff.

Explores the theories of cognitive science and provides direct experience with the techniques of cognitive science, in relation to the full range of both present and anticipated future activities in the workplace, the classroom, and in everyday life. Discussions of laboratory exercise results, supplementation of laboratory topics, and analyses of challenging primary research literature are done in meetings of the entire class. Laboratory exercises, which are done on an individual or small group basis, include both preplanned investigations and student-developed experiments. Use of digital computers as well as the Internet, e-mail, and web sites are integral components of the course.

The focus is on human-computer interactions that are intended to permit effective and efficient exchange of information and control of functions or operations. This approach is applied to real-life settings. Students are expected to come to each discussion meeting having read and thought about assigned materials, and to come to scheduled laboratory meetings fully prepared to perform the laboratory exercises. Laboratory facilities are available to students at all times so that statistical analysis of data, preparation of laboratory reports, and collection of experimental data are facilitated.

COGST 214(2140) Cognitive Psychology (also PSYCH 214/614[2140/6140]) (KCM)

Fall. 3 credits. Limited to 175 students. Prerequisite: sophomore standing. Note: Undergraduates who want 5 credits also should enroll in COGST 501. S. Edelman.

Introduces the idea of cognition as information processing, or computation, using examples from perception, attention and consciousness, memory, language, and thinking. Participants acquire conceptual tools that are essential for following the current thought on the nature of mind and its relationship to the brain.

[COGST 215(2150) Psychology of Language (also LING/PSYCH 215[2150]) (KCM)]

Spring. 3 credits. Prerequisite: sophomore, junior, or senior standing; any one course in psychology or human development. Next offered 2007-2008. M. Christiansen.

Provides an introduction to the psychology of language. The purpose of the course is to introduce students to the scientific study of psycholinguistic phenomena. It covers a broad range of topics from psycholinguistics, including the origin of language, the different components of language (phonology, morphology, syntax, and semantics), processes involved in reading, computational modeling of language processes, the acquisition of language (both under normal and special circumstances), and the brain bases of language.]

COGST 220(2200) The Human Brain and Mind: Biological Issues in Human Development (also HD 220[2200])

Fall. 3 credits. Prerequisite: HD 115 or permission of instructor. E. Temple.

This course explores the biology that underlies cognitive processes like language, decision making, and emotion. What do we know about the biology of the mind? As long ago as the 1600s, when the philosopher Descartes speculated on how the mind and body interact, humans have been fascinated by how the chunk of tissue we call the brain can give rise to all the complexity that is human behavior. This course is designed as an introduction to the biology underlying human behavior. After studying basic concepts in neurobiology and neuroanatomy, the course will explore a variety of topics, such as how our brain underlies our perception, thought, language, emotions, memories, and desires. In addition, we will discuss relevant human clinical disorders throughout the course. This course will give background necessary for other courses in HD that focus on biological mechanisms of human development and serves as a prerequisite for many of them.

[COGST 230(2300) Cognitive Development (also HD 230[2300])

Spring. 3 credits. Prerequisite: HD 115 or PSYCH 101. Next offered 2007-2008. Q. Wang.

Designed to help students develop a broad understanding of the mechanisms, processes, and current issues in cognitive development and learn to do critical, in-depth analyses of developmental research. Discusses how children's thinking changes over the course of development and evaluate psychological theories and research on various aspects of cognitive development. Topics include perception, representation and concepts, reasoning and problem solving, social cognition, memory, metacognition, language and thought, and academic skills. Students also have hands-on research experiences with "real" kids.]

COGST 231(2310) SSP: Borges and I: A Quest for Self-Knowledge (also PSYCH 231/BIONB 231)

Spring. 4 credits. Limited to 15 students. S. Edelman.

This seminar will survey the state of the art in theoretical neuroscience, a discipline whose ultimate goal is finding the mind in the brain. Our journey through the scientific literature on minds and brains, covering topics such as memory and identity, love, solitude and society, language, creativity, religion, and morality, will be accompanied by a choice of short stories by Jorge Luis Borges.

This seminar is sponsored by the John S. Knight Institute's Sophomore Seminars Program and is not restricted to sophomores.

COGST 330(3300) Introduction to Computational Neuroscience (also BIONB/PSYCH 330[3300]) (PBS)

Fall. 3-4 credits; 4-credit option includes lab providing additional computer simulation exercises. Limited to 25 students. Prerequisite: BIONB 222 or permission of instructor. Offered alternate years. C. Linster.

Covers the basic ideas and techniques involved in computational neuroscience. Surveys diverse topics including: neural dynamics of small networks of cells, neural coding, learning in neural networks and in brain structures, memory models of the hippocampus, sensory coding, and others.

COGST 333(3330) Problems in Semantics—Quantification in Natural Language (also LING 333[3333], PHIL 333[3330]) (KCM)

Spring. 4 credits. Prerequisites: course in logic or semantics or permission of instructor. M. Rooth.

Looks at problems in the semantic analysis of natural languages, critically examining work in linguistics and philosophy on particular topics of current interest.

[COGST 334(2340) The Growth of the Mind (also HD 334[3340])

Spring. 4 credits. Prerequisite: course in human experimental psychology, cognitive psychology, statistics, HD 115, or equivalent, or permission of instructor. Primarily intended for sophomores through seniors. Offered alternate years; next offered 2007-2008. B. Lust.

The fundamental issues of cognition are introduced in this course. What is the nature of human intelligence? Of logical and scientific reasoning? How are knowledge and understanding acquired and represented in the human mind? What is the nature of mental representation? What are the cognitive characteristics of the mind at birth? What is the relation of the acquisition of knowledge and understanding to their final representation? What are the relations between language and thought? In the study of those issues, how can epistemology and experimental psychology be related through the experimental method? Basic debates within the study of cognition are introduced and discussed throughout. The course will analyze Piaget's comprehensive theory of cognitive development and experimental results. Current research in cognitive development will be contrasted.]

COGST 342(3420) Human Perception: Applications to Computer Graphics, Art, and Visual Display (also PSYCH 342/642[3420/6420], VISST 342[3342])

Fall. 3 or 4 credits; 4-credit option involves term paper. Prerequisite: PSYCH 101 or permission of instructor. Highly recommended: PSYCH 205. D. Field.

Our present technology allows us to transmit and display information through a variety of media. To make the most of these media channels, it is important to consider the limitations and abilities of the human observer. The course considers a number of applied aspects of human perception with an emphasis on the display of visual information. Topics include "three-dimensional" display systems, color theory, spatial and temporal limitations of the visual systems, attempts at subliminal communication, and "visual" effects in film and television.

COGST 412(4120) Laboratory in Cognition and Perception (III) (also PSYCH 412)

Spring. 4 credits. Limited to 15 students. Prerequisite: statistics and one course in cognition or perception recommended. Graduate students, see PSYCH 612. M. W. D. J. Field.

Laboratory course designed to introduce students to experimental methods in perception and cognitive psychology. Students take part in a number of classic experiments and develop at least one independent project. Computers are available and used in many of the experiments although computer literacy is not required. Projects are selected from the

areas of visual perception, pattern recognition, memory, and concept learning.

[COGST 414(4140) Comparative Cognition (also PSYCH 414/714[4140/7140]) (KCM)]

Spring. 3 or 4 credits; 4-credit option involves annotated bibliography or creating relevant web site. Prerequisites: PSYCH 205, 209, 214, 223, 292, or permission of instructor. Next offered 2007–2008. Staff.

Examines some of the conceptual and empirical work resulting from and fueling the recent surge of interest in animals' thinking. Specific topics may include whether nonhumans behave intentionally; whether they show concept and category learning, memory, and abstract thinking similar to that of humans; the role of social cognition in the evolution of intelligence; and whether animals are conscious or self-aware. Evidence from communication studies in which animal signals provide a "window on the mind" plays a strong role in the deliberations, including studies of naturally occurring signaling in various species and experiments in which nonhumans are trained in human-like language behavior. Cognition in nonhuman primates is a specific focus throughout. The course is a mix of lecture and discussion, emphasizing the latter as much as possible.]

[COGST 416(4160) Modeling Perception and Cognition (also PSYCH 416/616[4160/6160])]

Spring. 4 credits. Prerequisites: PSYCH 205, 209, 214, or 215, or permission of instructor. M. Spivey.

Offers a survey of several computational approaches to understanding perception and cognition. Explore linear systems analysis, connectionist models, dynamical systems, and production systems, to name a few. Emphasis is placed on how complex sensory information gets represented in these models, as well as how it gets processed. This course covers computational accounts of language processing, language acquisition, visual perception, and visual development, among other topics.

[COGST 424(4240) Computational Linguistics (also COM S 324[3470], LING 424[4424]) (MQR)]

Fall. 4 credits. Prerequisite: LING 203. Recommended: COM S 114. Labs involve work in Unix environment. Next offered 2007–2008. M. Rooth.

For description, see LING 424.]

[COGST 426(4260) Learning Language (also PSYCH 426)]

Spring. 4 credits. Limited to 20 students. Prerequisite: PSYCH 214 or by permission of the instructor. S. Edelman.

In this seminar, we shall survey a promising new approach to the understanding of the cognitive function that is at the core of the human nature: language. Thematically, the material to be covered focuses on two aspects of the study of language: (1) psycholinguistic data and their interpretation, and (2) algorithmic studies and computational modeling. In psycholinguistics, we shall read key papers that shed light on the nature of linguistic knowledge ("grammar") possessed by normal adult speakers, and on the acquisition of this knowledge by children. In computation, the focus is on acquisition of grammar from raw data.

[COGST 427(4270) Evolution of Language (also PSYCH 427/627[4270/6270])]

Fall. 3 credits. Limited to 20 students.

Prerequisite: senior standing or permission of instructor. Offered alternate years; next offered 2007–2008. M. Christiansen.

Fueled by theoretical constraints derived from recent advances in the brain and cognitive sciences, the last decade of the 20th century saw a resurgence of scientific interest in the evolution of language. This seminar surveys a cross section of modern theories, methods, and research pertaining to the origin and evolution of language. Considers evidence from psychology, the cognitive neurosciences, comparative psychology, and computational modeling of evolutionary processes. Topics for discussion may include: What does the fossil record tell us about language evolution? What can we learn from comparative perspectives on neurobiology and behavior? Can apes really learn language? Did language come about through natural selection? What were the potential preadaptations for language? What is the relationship between phylogeny and ontogeny?]

[COGST 428(4280) Connectionist Psycholinguistics (also LING/PSYCH 428/628[4280/6280])]

Fall. 3 credits. Prerequisite: senior standing or permission of instructor. Offered alternate years; next offered 2007–2008. M. Christiansen.

Connectionist psycholinguistics involves using (artificial) "neural" networks, which are inspired by brain architecture, to model empirical data on the acquisition and processing of language. As such, connectionist psycholinguistics has had a far-reaching impact on language research. This course surveys the state of the art of connectionist psycholinguistics, ranging from speech processing and word recognition, to inflectional morphology, sentence processing, language production, and reading. An important focus of discussion is the methodological and theoretical issues related to computational modeling of psychological data. The broader implications of connectionist models of language are discussed, not only for psycholinguistics, but also for computational and linguistic perspectives on language.]

[COGST 432(4320) Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also HD 432)]

Fall. 3 credits. Prerequisites: HD 115 or PSYCH 101. Offered alternate years. Not offered 2006–2007. B. Koslowski.

The first section of the course will examine case studies of examples of scientific reasoning, such as identifying the causes of "childbed fever," whether a prehistoric population engaged in cannibalism, whether T. Rex was a fierce hunter or a wimpy scavenger, whether a primitive nomadic tribe might have included warrior women, etc. The case studies will be examined to try to identify the sorts of principles that an adequate description of scientific reasoning would need to include.

We will then consider various models of scientific reasoning with an eye towards identifying the extent to which the models can account for the sort of thinking that is exemplified in the case studies. Along the way, we will consider such questions as the role of theory in scientific reasoning, strategies for responding to anomalous or disconfirming

data, when disconfirming data ought to (and do) prompt rejection rather than modification of a theory, confirmation bias, magical thinking in children, other developmental differences, sociocultural influences on scientific reasoning, etc. In discussing all of these questions, we will also consider developmental aspects of scientific reasoning, such as whether "magical thinking" in children is qualitatively different than what adults do.]

[COGST 433(4330) Developmental Cognitive Neuroscience (also HD 433[4330])]

Spring. 3 credits. Limited to 25 students. Prerequisite: HD 115 or PSYCH 101 and one semester of biology; permission of instructor. Next offered 2007–2008. E. Temple.

What are the brain mechanisms underlying human behavior and cognition? How do those underlying brain mechanisms develop? These are the questions that we explore in this course through both lecture and reading and discussion of primary literature. The first weeks of class cover basics of developmental neurobiology and neuroanatomy and methods used in the field of cognitive neuroscience (especially neuroimaging techniques). After the introductory and methods information is covered the format changes to a weekly one including lecture and discussion of current research papers. Each week students focus on a particular cognitive ability such as language, memory, attention, or inhibitory control. For each topic students explore what is known about the brain mechanisms that underlie that particular function, how those brain mechanisms develop over the life span, and where possible, the brain mechanisms underlying disorders of that particular cognitive function.]

[COGST 434(4340) Current Topics in Cognitive Development (also HD 434)]

Spring. 3 Credits. Prerequisites: Course HD 234/COGST 234 (simultaneously); permission of instructor. Offered alternate years. Not offered 2006–2007.

The course will supplement survey course HD 234/COGST 234 with additional discussion of current research in the area of cognitive development. Selected current papers will be read and discussed in parallel with the HD 234/COGST 234 survey course. Modern interpretations and challenges to Piaget's theory will be evaluated in light of current literature in the field. A small group format will be adopted to encourage discussion.]

[COGST 435(4350) Mind, Self, and Emotion: Research Seminar (also HD 431[4310])]

Fall. 3 credits. Limited to 20 students. Prerequisite: upperclass undergraduate or graduate standing. Letter grades only. Next offered 2007–2008. Q. Wang.

Examines current data and theory concerning memory, self, and emotion from a variety of perspectives and at multiple levels of analysis, particularly focusing on the interconnections among these fields of inquiry. A special emphasis is given to cross-cultural studies on memory development, self-construal, and conception of emotion.]

COGST 436(4360) Language Development (also HD 337[3370], LING 436[4436], PSYCH 436[4360]) (KCM)

Spring. 4 credits. Open to undergraduate and graduate students. Graduate students should also enroll in HD 633, LING 700, or PSYCH 600, a supplemental graduate seminar. Prerequisite: at least one course in developmental psychology, cognitive psychology, cognitive development, or linguistics. S-U grades optional. B. Lust. Surveys basic issues, methods, and research in the study of first-language acquisition. Major theoretical positions in the field are considered in the light of experimental studies in first-language acquisition of phonology, syntax, and semantics from infancy on. The fundamental linguistic issues of "Universal Grammar" and the biological foundations for acquisition are discussed, as are the issues of relations between language and thought. The acquisition of communication systems in nonhuman species such as chimpanzees is addressed, but major emphasis is on the child. An optional lab course supplement is available (see COGST 450/HD 437/LING 450/PSYCH 437).

COGST 437(4370) Thinking and Reasoning (also HD 238[2380])

Fall. 3 credits. Prerequisite: HD 115 or PSYCH 101. B. Koslowski. Examines problem solving and transfer, precausal thinking, logical thinking, practical syllogisms, causal reasoning, scientific reasoning, theories of evidence, expert vs. novice differences, and nonrational reasoning. Two general issues run through the course: the extent to which children and adults approximate the sorts of reasoning that are described by various types of models, and the extent to which various models accurately describe the kind of thinking that is required by the types of problems and issues that arise and must be dealt with in the real world.

COGST 450(4500) Lab Course: Language Development (also HD/PSYCH 437[4370], LING 450[4500])

Spring. 2 credits. In conjunction with COGST/HD 337, LING/PSYCH 436. B. Lust. Optional supplement to the survey course Language Development (COGST/HD/LING/PSYCH 436). The lab course provides students with a hands-on introduction to scientific research, including design and methods, in the area of first-language acquisition.

[COGST 452(4520) Culture and Human Development (also HD 452[4520])]

Fall. 3 credits. Limited to 30 students. Prerequisite: HD 115 or PSYCH 101. Next offered 2007-2008. Q. Wang. Takes an interdisciplinary approach to address the central role of culture in human development. Draws on diverse theoretical perspectives, including psychology, anthropology, education, ethnography, and linguistics, to understand human difference, experience, and complexity. Empirical reflections are taken upon major developmental topics such as cultural aspects of physical growth and development; culture and cognition; culture and language; culture, self, and personality; cultural construction of emotion; culture issues of sex and gender; and cultural differences in pathology.]

[COGST 465(4650) Topics in High-Level Vision (also COM S 392[4110], PSYCH 465/665[4650/6650]) (KCM)]

Spring. 4 credits. Offered alternate years; next offered 2007-2008. S. Edelman. For description, see PSYCH 465.]

COGST 470(4700) Undergraduate Research in Cognitive Studies

Fall or spring. 1-4 credits. Prerequisite: permission of major advisor; written permission of Cognitive Studies faculty member who supervises research and assigns grade. S-U grades optional. Cognitive Studies faculty. Experience in planning, conducting, and reporting independent laboratory, field, and/or library research in an interdisciplinary area relevant to Cognitive Studies.

COGST 471(4710) Cognitive Studies Research Workshop

Fall or spring. Variable credit. Prerequisites: enrollment in an independent research course either in Cognitive Studies (e.g., COGST 470) or in a related department or in honors thesis research in one of the departments relevant to Cognitive Studies. Staff (interdisciplinary faculty from Cognitive Studies Program).

Provides a research workshop in which undergraduate students who are engaged in research in a particular area relevant to cognitive science can meet across disciplines to learn and practice the essentials of research using interdisciplinary approaches. In this workshop, students critique and discuss the existing literature in a field of inquiry, individual students present their research designs, methods, and results from their independent research studies, debate the interpretation of their research results, and participate in the generation of new research hypotheses and designs, in a peer group of other undergraduate students involved in related research.

COGST 474(4740) Introduction to Natural Language Processing (also COM S 474[4740], LING 474[4474])

Fall. 4 credits. C. Cardie. For description, see COM S 474.

COGST 476-477(4760-4770) Decision Theory I and II (also COGST/ECON 676-677[6760-6770], ECON 476-477[4760-4770]) (MQR)

Fall and spring. 4 credits each semester. In fall, course is lecture based. Students are required to complete several problem sets and there is a final exam. In spring, there are additional lectures as well as visiting speakers. Students are required to read speakers' papers, participate in discussions, and complete a research project. L. Blume, D. Easley, and J. Halpern.

Research on decision theory resides in a variety of disciplines including computer science, economics, game theory, philosophy, and psychology. This new course attempts to integrate these various approaches. The course is taught jointly by two economists/game theorists and a computer scientist. The course covers several areas: (1) basic decision theory. This theory, sometimes known as "rational choice theory," is part of the foundation for the disciplines listed above. It applies to decisions made by individuals or by machines. (2) the limitations of and problems with this theory. Issues discussed here include decision theory paradoxes revealed by experiments, cognitive and knowledge limitations, and

computational issues. (3) new research designed in response to these difficulties. Issues covered include alternative approaches to the foundations of decision theory, adaptive behavior, and shaping the individual decisions by aggregate/evolutionary forces.

COGST 491(4910) Research Methods in Psychology (also COGST 691[6910], PSYCH 491/691[4910/6910])

Spring. 4 credits. Limited to 15 students. Recommended: permission of instructor, PSYCH 350, experience in upper-division psychology courses, or graduate standing. Graduate students, see COGST 691. D. Dunning.

Intensive examination of the basic research methods used in social, personality, cognitive, and developmental psychology. The course focuses on designing and conducting experiments, i.e., how to turn vague theories into concrete and testable notions, evaluate studies, avoid common pitfalls, and, finally, remain ethical. Beyond learning methods of "correct" and rigorous experimentation, we also discuss what makes a research study actually interesting. The course, in addition, covers test construction, survey methods, and "quasi experiments." Students concentrate on completing a small research project in which they conduct an experiment, interpret its data, and write up the results.

Computer Science

COM S 101(1710) Introduction to Cognitive Science (also COGST 101[1101], LING 170[1170], PHIL 191[1910], PSYCH 102[1020])

Fall. 3 or 4 credits. M. Spivey.

COM S 172(1700) Computation, Information, and Intelligence (also COGST 172[1720], ENGRI 172[1700], INFO 172)

Fall. 3 credits. L. Lee. For description, see COGST 201.

COM S 201(2710) Cognitive Science in Context Laboratory (also COGST/PSYCH 201[2010])

Spring. 4 credits. D. Field and staff.

COM S 211(2110) Computers and Programming

Fall, spring, or summer. 3 credits.

COM S 312(3110) Data Structures and Functional Programming

Fall or spring. 4 credits.

[COM S 324(3470) Computational Linguistics (also COGST 424[4240], LING 424[4424])]

Fall. 4 credits. Next offered 2007-2008. M. Rooth.]

COM S 381(3810) Introduction to Theory of Computing

Fall, summer. 4 credits.

[COM S 392(4110) Topics in High-Level Vision (also COGST 465[4650], PSYCH 465/665[4650/6650])]

Spring. 4 credits. Offered alternate years. Next offered 2007-2008. S. Edelman.]

COM S 411(4110) Programming Languages and Logics

Fall. 4 credits. Not offered every year.

COM S 472(4700) Foundations of Artificial Intelligence

Fall. 3 credits. T. Joachims.

COM S 473(470) Practicum in Artificial Intelligence

Fall. 2 credits. T. Joachims.

[COM S 474(4740) Introduction to Natural Language Processing (also COGST/LING 474[4474])]

Fall. 4 credits. Next offered 2007–2008. M. Rooth.]

COM S 478(4780) Machine Learning

Spring. 3 credits.

COM S 481(4810) Introduction to Theory of Computing

Fall. 4 credits. J. Halpern

COM S 486(4860) Applied Logic (also MATH 486[4860])

Spring. 4 credits.

Education (College of Agriculture and Life Sciences)**EDUC 411(4110) Educational Psychology**

Fall. 3 credits. D. Schrader.

Human Development (College of Human Ecology)**HD 115(1150) Human Development**

Fall or summer. 3 credits.

HD 220(2200) The Human Brain and Mind: Biological Issues in Human Development (also COGST 220)

Fall. 3 credits. E. Temple.

[HD 230(2300) Cognitive Development (also COGST 230[2300])]

Spring. 3 credits. Next offered 2007–2008. Q. Wang.]

HD 238(2380) Thinking and Reasoning (also COGST 437)

Fall. 3 credits. B. Koslowski.

HD 266(2660) Emotional Functions of the Brain

Spring. 3 credits.

HD 320(3200) Human Developmental Neuropsychology

Spring. 3 credits. B. Koslowski.

HD 336(3360) Connecting Social, Cognitive, and Emotional Development

Fall. 3 credits. M. Casasola.

HD 337(3370) Language Development (also COGST 436[4360], LING 436[4436], PSYCH 436[4360])

Spring. 4 credits. B. Lust.

HD 344(3440) Infant Behavior and Development

Fall. 3 credits. S. Robertson.

HD 347(3470) Human Growth and Development: Biological and Behavioral Interactions (also B&SOC 347, NS 347[3470])

Spring. 3 credits. S. Robertson and J. Haas.

HD 362(3620) Human Bonding

Fall. 3 credits.

[HD 431(4310) Mind, Self, and Emotion: Research Seminar (also COGST 435)]

Fall. 3 credits. Next offered 2007–2008. Q. Wang.]

HD 432(4320) Cognitive, Social, and Developmental Aspects of Scientific Reasoning (also COGST 432)

Fall. 3 credits. B. Koslowski.

For description, see COGST 432.

[HD 433(4330) Developmental Cognitive Neuroscience (also COGST 433[4330])]

Spring. 3 credits. Next offered 2007–2008. E. Temple.]

HD 437(4370) Lab Course: Language Development (also COGST/LING 450[4450], PSYCH 437[4370])

Spring. 2 credits. In conjunction with HD 337, COGST/LING/PSYCH 436. B. Lust.

[HD 452(4520) Culture and Human Development (also COGST 452)]

Fall. 3 credits. Q. Wang.]

Linguistics**LING 170(1170) Introduction to Cognitive Science (also COGST/COM S 101[1101], PHIL 191[1910], PSYCH 102[1020])**

Fall. 3 or 4 credits. M. Spivey.

[LING 215(2215) Psychology of Language (also COGST 215, LING 715, PSYCH 215/715[2150/7150])]

Spring. 3 credits. M. Christiansen.]

LING 332(3332) Philosophy of Language (also PHIL 332[3320])

Fall. 4 credits. Staff.

LING 333(3333) Problems in Semantics—Quantification in Natural Language (also COGST/PHIL 333[3330])

Spring. 4 credits. S. McConnell-Ginet.

LING 424(4424) Computational Linguistics (also COGST 424[4240], COM S 324[3470])

Fall. 4 credits. M. Rooth.

LING 425(4425) Pragmatics

Spring. 4 credits.

LING 428(4428) Connectionist Psycholinguistics (also COGST 428 LING 628, PSYCH 428/628[4280/6280])

Fall. 3 credits. Offered alternate years. M. Christiansen.

LING 436(4436) Language Development (also COGST/HD/PSYCH 436[4360])

Spring. 4 credits. B. Lust.

LING 450(4450) Lab Course: Language Development (also COGST 450, HD/PSYCH 437[4370])

Spring. 2 credits. In conjunction with COGST/HD/LING/PSYCH 436. B. Lust.

LING 474(4474) Introduction to Natural Language Processing (also COGST 474, COM S 474[4740])

Fall. 4 credits. C. Cardie.

Mathematics**MATH 281(2810) Deductive Logic (also PHIL 331[3310])**

Fall. 4 credits.

MATH 481(4810) Mathematical Logic (also PHIL 431[4310])

Spring. 4 credits. Offered alternate years.

MATH 486(4860) Applied Logic (also COM S 486[4860])

Spring. 4 credits.

Neurobiology and Behavior**BIONB 111(1110) Brain, Mind, and Behavior (also COGST/PSYCH 111[1110])**

Spring. 3 credits. R. Hoy and E. Adkins Regan.

BIONB 221(2210) Neurobiology and Behavior I: Introduction to Behavior

Fall. 3 or 4 credits.

BIONB 222(2220) Neurobiology and Behavior II: Introduction to Neurobiology

Spring. 3 or 4 credits.

[BIONB 326(3260) The Visual System

Spring. 4 credits. Next offered 2007–2008. H. Howland.]

BIONB 328(3280) Biopsychology of Learning and Memory (also PSYCH 332[3320])

Spring. 3 credits. T. DeVoogd.

BIONB 330(3330) Introduction to Computational Neuroscience (also COGST/PSYCH 330[3300])

Fall. 3–4 credits. C. Linster.

[BIONB 392(3920) Drugs and the Brain

Spring. 4 credits. Next offered 2007–2008. R. Harris-Warrick and L. M. Nowak.]

[BIONB 396(3960) Introduction to Sensory Systems (also PSYCH 396[3960])]

Spring. 3 or 4 credits. Next offered 2007–2008. B. Halpern.]

BIONB 421(4210) Effects of Aging on Sensory and Perceptual Systems (also PSYCH 431/631[4310/6310])

Fall. 3 or 4 credits. B. Halpern.

[BIONB 424(4240) Neuroethology (also PSYCH 424[4240])]

Spring. 4 credits. Next offered 2007–2008.]

[BIONB 426(4260) Animal Communication

Spring. 4 credits. Next offered 2007–2008.]

BIONB 492(4920) Sensory Function (also PSYCH 492/692[4920/6920], VISST 492)

Spring. 3 or 4 credits. H. Howland.

BIONB 496(4960) Bioacoustic Signals in Animals and Man

Fall. 3 credits. C. Clark and R. Hoy.

Philosophy**PHIL 262(2620) Introduction to Philosophy of Mind**

Fall. 4 credits.

PHIL 431(4310) Mathematical Logic (also MATH 481[4810])**Psychology****PSYCH 102(1200) Introduction to Cognitive Science (also COGST/COM S 101[1101], LING 170[1170], PHIL 191[1910])**

Fall. 3 or 4 credits. M. Spivey.

PSYCH 111(1110) Brain, Mind, and Behavior (also BIONB 111[1111], COGST 111[1110])

Spring. 3 credits. R. Hoy and E. Adkins Regan.

PSYCH 201(2010) Cognitive Science in Context Laboratory (also COGST/COM S 201[2010])

Spring. 4 credits. D. Field and staff.

PSYCH 205(2050) Perception (also PSYCH 605[6050])

Spring. 3 credits. J. Cutting.

PSYCH 209(2090) Developmental Psychology (also PSYCH 709[7090])

Spring. 4 credits. M. Goldstein.

PSYCH 214(2140) Cognitive Psychology (also COGST 214[2140])

Fall. 3 credits. S. Edelman.

PSYCH 215(2150) Psychology of Language (also COGST 215, LING 215/715[2215/7715], PSYCH 715[7150])

Spring. 3 credits. M. Christiansen.

[PSYCH 223(2230) Introduction to Biopsychology

Fall. 3 credits. Next offered 2007-2008. Staff.]

PSYCH 305(3050) Visual Perception (also VISST 305)

Fall. 4 credits. J. Cutting.

[PSYCH 311(3110) Introduction to Human Memory (also PSYCH 611[6110])

Spring. 3 credits. Next offered 2007-2008.]

PSYCH 316(3160) Auditory Perception (also PSYCH 716[7160])

Fall. 3 or 4 credits. C. Krumhansl.

[PSYCH 326(3260) Evolution of Human Behavior (also PSYCH 626[6260])

Spring. 4 credits. Next offered 2007-2008. R. Johnston.]

PSYCH 330(3300) Introduction to Computational Neuroscience (also BIONB/COGST 330[3300])

Fall. 3-4 credits. C. Linster.

PSYCH 332(3320) Biopsychology of Learning and Memory (also BIONB 328[3280], PSYCH 632[6320])

Spring. 3 credits. T. DeVoogd.

PSYCH 342(3420) Human Perception: Applications to Computer Graphics, Art, and Visual Display (also COGST 342[3420], VISST 342[3342], PSYCH 642[6420])

Fall. 3 or 4 credits. D. Field.

PSYCH 361(3610) Biopsychology of Normal and Abnormal Behavior (also NS 361[3610])

Fall. 3 credits. B. J. Strupp.

[PSYCH 396(3960) Introduction to Sensory Systems (also BIONB 396[3960], PSYCH 696[6960])

Spring. 3 or 4 credits. Next offered 2007-2008. B. Halpern.]

[PSYCH 412(4120) Laboratory in Cognition and Perception (also PSYCH 612[6121])

Spring. 4 credits. Next offered 2007-2008. D. Field.]

[PSYCH 413(4130) Information Processing: Conscious and Nonconscious

Spring. 4 credits. Next offered 2007-2008.]

[PSYCH 414(4140) Comparative Cognition (also COGST 414[4140], PSYCH 714[7140])

Spring. 3 or 4 credits. Next offered 2007-2008.]

[PSYCH 415(4150) Concepts, Categories, and Word Meanings (also PSYCH 615[6150])

Fall. 4 credits. Next offered 2007-2008.]

PSYCH 416(4160) Modeling Perception and Cognition (also COGST 416[4160], PSYCH 616[6160])

Spring. 4 credits. M. Spivey.

[PSYCH 417(4170) The Origins of Thought and Knowledge (also PSYCH 717[7170])

Fall. 4 credits. Next offered 2007-2008.]

PSYCH 418(4180) Psychology of Music (also PSYCH 618[6180])

Spring. 3 or 4 credits. C. Krumhansl.

[PSYCH 424(4240) Neuroethology (also BIONB 424[4240])

Spring. 4 credits. Next offered 2007-2008.]

PSYCH 425(4250) Cognitive Neuroscience (also PSYCH 625[6250])

Fall. 4 credits. B. Finlay.

[PSYCH 427(4270) Evolution of Language (also COGST 427, PSYCH 627[6270])

Fall. 3 credits. Offered alternate years; next offered 2007-2008. M. Christiansen.]

PSYCH 428(4280) Connectionist Psycholinguistics (also COGST 428, LING 428/628[4428/6628], PSYCH 628[6280])

Fall. 3 credits. Offered alternate years. M. Christiansen.

PSYCH 431(4310) Effects of Aging on Sensory and Perceptual Systems (also BIONB 421[4210], PSYCH 631[6310])

Fall. 3 or 4 credits. B. Halpern.

PSYCH 436(4360) Language Development (also COGST 436, HD 436[4360], LING 436[4436])

Spring. 4 credits. B. Lust.

PSYCH 437(4370) Lab Course: Language Development (also COGST/LING 450[4450], HD 437[4370])

Spring. 2 credits. In conjunction with COGST/HD/LING/PSYCH 436. B. Lust.

[PSYCH 465(4650) Topics in High-Level Vision (also COGST 465[4650], COM S 392, PSYCH 665[6655])

Spring. 4 credits. Offered alternate years; next offered 2007-2008. S. Edelman.]

PSYCH 491(4910) Research Methods in Psychology (also COGST 491/691[4910/6910], PSYCH 691[6910])

Spring. 4 credits. D. Dunning.

[PSYCH 492(4920) Sensory Function (also BIONB/VISST 492[4920], PSYCH 692[6920])

Spring. 4 credits. Next offered 2007-2008. B. Halpern and H. Howland.]

Graduate Courses and Seminars

The following courses and seminars are generally for graduate students only. However, some may be appropriate for advanced undergraduates. The director of the concentration must approve an undergraduate's use of any of these for satisfying the concentration requirements.

[COGST 501(6150) Issues in Biological Information Processing (also LING 501[5501], PSYCH 501[5010])

Fall. 2 credits. Corequisite: COGST/PSYCH 214 or permission of instructor. Next offered 2007-2008. S. Edelman.

Introduces graduate students interested in cognition (especially those who plan to pursue the Cognitive Studies minor) to the central issues in computational cognitive psychology. It consists of a series of advanced-level discussions of selected examples from the material covered in COGST 101 (also COM S 101, LING 170, PHIL 191, PSYCH 102) and COGST 214 (also PSYCH 214/614). The material from those courses includes perception, attention and consciousness, memory, thinking, and language. The course focuses on the development of skills required for critical evaluation of research in cognitive sciences, backed by an in-depth understanding of the relevant concepts and theories.]

[COGST 530(6300) Representation of Structure in Vision and Language (also LING 530[5530], PSYCH 530[6300])

Spring. 4 credits. Limited to 20 students. Graduate seminar. Prerequisites: graduate standing or undergraduates by permission of instructor; one course each in cognitive psychology, linguistics, and computer science, or permission of instructor. Offered alternate years; next offered 2007-2008. S. Edelman.

Concentrates on the nature of the representation of visual objects and scenes in the brain and compares it with the structural framework that serves as the main explanatory tool in current theories of language processing. Data and ideas are drawn from visual psychophysics, neurophysiology, psycholinguistics, computational vision and linguistics, and philosophy. Students present published research papers and preprints, which are then discussed and critiqued.]

[COGST 550 Special Topics in Cognitive Science (also PSYCH 550[5500])

Fall or spring. 4 credits. Topics and schedule available in Psychology Department main office just before start of classes each semester. Next offered 2007-2008. M. Spivey.]

[COGST 614 Cognitive Psychology (also PSYCH 614[6140])

Fall. 5 credits. Includes (M W F) lec of COGST/PSYCH 214 and a sec. S. Edelman. Introduces the idea of cognition as information processing, or computation, using examples from perception, attention and consciousness, memory, language, and thinking. Participants acquire conceptual tools that are essential for following the current thought on the nature of mind and its relationship to the brain.]

COGST 633(6330) Language Acquisition Seminar (also HD 633[6633], LING 633[6633])

Fall or spring. 1–4 credits. Prerequisite: COGST/HD/LING/PSYCH 436 or equivalent, or permission of instructor. B. Lust.

Reviews and critiques current theoretical and experimental studies of first-language acquisition, with a concentration on insights gained by cross-linguistic study of this area. Attention is also given to the development of research proposals.

[COGST 671(6710) Introduction to Automated Reasoning (also COM S 671[6762])]

Fall. 4 credits. Prerequisite: (COM S 611 and graduate standing) or permission of instructor.

Topics in modern logic needed to understand and use automated reasoning systems such as HOL, Nuprl, and PVS. Special emphasis is on type theory and logic and on tactic-oriented theorem proving.]

COGST 676–677(6760–6770) Decision Theory (also COGST 476/477, COM S 576/577, ECON 476–477/676–677[4460–4470/6760–6770])

Fall and spring. 4 credits each semester. Fall: lecture-based; students must complete several problem sets and a final exam. Spring: additional lectures as well as visiting speakers; students must read speakers' papers, participate in discussions, and complete a research project. L. Blume, D. Easley, and J. Halpern.

Research on decision theory resides in a variety of disciplines including computer science, economics, game theory, philosophy, and psychology. This new course attempts to integrate these various approaches. The course covers several areas: (1) basic decision theory. This theory, sometimes known as "rational choice theory," is part of the foundation for the disciplines listed above. It applies to decisions made by individuals or by machines; (2) the limitations of and problems with this theory. Issues discussed here include decision theory paradoxes revealed by experiments, cognitive and knowledge limitations, and computational issues; (3) new research designed in response to these difficulties. Issues covered here include alternative approaches to the foundations of decision theory, adaptive behavior, and shaping the individual decisions by aggregate/evolutionary forces.

COGST 691(6910) Research Methods in Psychology (also COGST 491[4910], PSYCH 491/691[4910/6910])

Spring. 4 credits. Limited to 15 students. D. Dunning.

Intensive examination of the basic research methods used in social, personality, cognitive, and developmental psychology. Focuses on designing and conducting experiments, i.e., how to turn vague theories into concrete and testable notions, evaluate studies, avoid common pitfalls, and, finally, remain ethical. The course, in addition, covers test construction, survey methods, and "quasi experiments." Students concentrate on completing a small research project in which they conduct an experiment, interpret its data, and write up the results.

COGST 710(7100) Research in Human Experimental Psychology (also PSYCH 710[7100])

Fall or spring. Credit TBA. Prerequisite: permission of instructor.

COM S 664(6670) Machine Vision

Fall. 4 credits. R. Zabih.

[COM S 671(6762) Introduction to Automated Reasoning (also COGST 671)]

Fall. 4 credits. Next offered 2007–2008.]

COM S 672(6700) Advanced Artificial Intelligence

Spring. 4 credits. Prerequisite: COM S 472.

COM S 674(6740) Natural Language Processing

Spring. 4 credits. Prerequisite: COM S 472. Not offered every year.

[COM S 676(6764) Reasoning about Knowledge]

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic. Next offered 2007–2008.]

[COM S 677(6766) Reasoning about Uncertainty]

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic. Next offered 2007–2008.]

COM S 772(7970) Seminar in Artificial Intelligence

Fall and spring. 2 credits.

COM S 775(7794) Seminar in Natural Language Understanding

Fall and spring. 2 credits. C. Cardie.

EDUC 611(6110) Educational Psychology

Fall. 3 credits. Prerequisite: graduate standing or permission of instructor. D. Schrader.

EDUC 614(6140) Gender, Context, and Epistemological Development (also FGSS 624[6240])

Fall. 3 credits. D. Schrader.

EDUC 714(7140) Moral Development and Education

Spring. 3 credits. Offered alternate years. D. Schrader.

HD 633(6330) Language Acquisition Seminar (also COGST/LING 633[6633])

Fall. 1–4 credits. Prerequisite: COGST/HD/LING/PSYCH 436 or equivalent. B. Lust.

HD 600/700 Graduate Seminars**[LING 501(5501) Issues in Biological Information Processing (also COGST 501)]**

Fall. 2 credits. Corequisite: COGST/PSYCH 214 or permission of instructor. Next offered 2007–2008. S. Edelman.]

[LING 530(5530) Representation of Structure in Vision and Language (also COGST/PSYCH 530[6150])]

Spring. 4 credits. Offered alternate years; next offered 2007–2008. S. Edelman.]

[LING 609(6609) Second Language Acquisition and the Asian Languages (also ASIAN 610[6610])]

Fall. 4 credits. Prerequisite: LING 414–415. Next offered 2007–2008. Y. Shirai.]

[LING 628 Connectionist Psycholinguistics (also COGST/LING 428, PSYCH 428/628[4280/6280])]

Fall. 3 credits. Offered alternate years. M. Christiansen.]

LING 633(6633) Language Acquisition Seminar (also COGST/HD 633[6330])

Fall. 1–4 credits. Prerequisite: COGST/HD/LING/PSYCH 436 or equivalent. B. Lust.

LING 700(7700) Graduate Seminars**MATH 681(6810) Logic**

Spring. 4 credits.

MATH 781–782(7810–7820) Seminar in Logic

Fall and spring. 4 credits each.

MATH 788(7880) Topics in Applied Logic

Fall. 4 credits.

NBA 663(6630) Managerial Decision Making

Fall. 3 credits. J. Russo.

PHIL 700(7000) Graduate Seminars**PSYCH 519(6830) Affects and Cognition (also NRE 507)**

Fall. 4 credits. A. M. Isen.

PSYCH 521(6210) Behavioral and Brain Sciences

Fall and spring. 4 credits each semester.

[PSYCH 530(6300) Representation of Structure in Vision and Language (also COGST 530[6300], LING 530[5530])]

Spring. 4 credits. Offered alternate years; next offered 2007–2008. S. Edelman.]

PSYCH 550(5500) Special Topics in Cognitive Science (also COGST 550[5500])

Spring. 4 credits. M. Spivey.

[PSYCH 614(6140) Cognitive Psychology (also COGST 614)]

Fall. 5 credits. S. Edelman.]

PSYCH 616(6160) Modeling Perception and Cognition (also COGST/PSYCH 416[4160])

Spring. 4 credits. M. Spivey.

PSYCH 618(6180) Psychology of Music (also PSYCH 418[4180])

Spring. 4 credits. C. Krumhansl.

[PSYCH 628(6280) Connectionist Psycholinguistics (also COGST/PSYCH 428[4280], LING 428/628[4428/6628])]

Fall. 3 credits. Next offered 2007–2008. M. Christiansen.]

PSYCH 631(6310) Effects of Aging on Sensory and Perceptual Systems (also BIONB 421[4210], PSYCH 431[4310])

Fall. 3 or 4 credits. B. Halpern.

[PSYCH 665(6650) Topics in High-Level Vision (also COM S 392, COGST 465, PSYCH 465[4650])]

Spring. 4 credits. Offered alternate years; next offered 2007–2008. S. Edelman.]

PSYCH 691(6910) Research Methods in Psychology (also COGST 491/691[4910/6910], PSYCH 491[4910])

Spring. 4 credits. D. Dunning.

[PSYCH 714(7140) Comparative Cognition (also COGST/PSYCH 414[4140])]

Spring. 3 or 4 credits. Next offered 2007–2008.]

[PSYCH 716(7160) Auditory Perception (also PSYCH 316[3160])]

Fall. 4 credits. Next offered 2007–2008. C. Krumhansl.]

COLLEGE SCHOLAR PROGRAM

K. Gabard, director (55 Goldwin Smith Hall, 255-5792)

The College Scholar Program is described in the introductory section of Arts and Sciences.

COLLS 397 Independent Study—Senior Project

Fall or spring. 1–4 credits. Prerequisite: permission of program office.

COLLS 499 Honors Research

Fall or spring. 1–8 credits; max. 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit brief proposal approved by honors committee.

COMPARATIVE LITERATURE

J. Culler, chair (247 Goldwin Smith Hall), B. Maxwell, director of undergraduate studies (247 Goldwin Smith Hall); T. Murray, director of graduate studies (fall) (247 Goldwin Smith Hall); W. Cohen, director of graduate studies (spring) (247 Goldwin Smith Hall); F. Ahl, A. Banerjee, C. Carmichael, C. Chase, B. deBary, A. François, P. Hohendahl, G. Holst-Warhaft, E. Hyman, W. J. Kennedy, D. LaCapra, P. Liu, B. Maxwell, N. Melas, J. Monroe, J. R. Resina, N. Saccamano, N. Sakai. Emeritus: A. Caputi, D. Grossvogel, W. Holdheim, E. Rosenberg, L. Waugh.

Also cooperating: B. Bosteels, R. Brann, P. Carden, P. Gilgen, E. Hanson, M. Hart, R. Klein, D. Mankin, T. McNulty, L. Paterson, K. Perry-Long, D. Reese, D. Rubenstein, B. Rusk, N. Salvato, D. Schwarz, D. Starr, G. Waite, D. Woubshet.

The Department of Comparative Literature provides a broad range of courses in European and non-European literature as well as visual and media studies. Courses stress significant authors, themes, problems, styles, genres, historical periods, and theoretical perspectives. In cooperation with related departments in the humanities, the departmental offerings reflect current interdisciplinary approaches to literary study: hermeneutics, semiotics, deconstruction, cultural criticism, Marxism, reception aesthetics, feminism, and psychoanalysis.

The Major

The Department of Comparative Literature provides a broad range of courses in European as well as non-European literatures. Courses devoted to literary studies variously stress significant authors, themes, problems, genres, historical periods, and theoretical perspectives. The Department also offers an array of courses in visual and media studies and enables the study of literature in relation to the history and theory of film, video, and other arts, as well as media. In

cooperation with related departments in the humanities, the department encourages the interdisciplinary study of literature—in conjunction with anthropology, history, philosophy, sexuality studies, psychology, sociology, and so forth. The course offerings reflect current theoretical approaches to literature, media, and the arts—hermeneutics, semiotics, deconstruction, cultural criticism, Marxism, postcolonialism, reception aesthetics, feminism, and psychoanalysis.

Requirements for the Major

All majors in Comparative Literature are expected to have completed 10 courses, half of which must be devoted to the study of works in cultures other than English in their original languages.

Five of these courses must be taken in the Department of Comparative Literature. One of these must be a Core Course, to be taken in the junior or the senior year. The designated core courses change each semester (for 2006–2007, COM L 470 [fall], COM L 448 [spring]). If elected, an honors essay will also count as one of these required five courses.

An honors essay (COM L 493) of roughly 50 pages is optional. It is to be written during the senior year under the direction of a faculty member, preferably from within the department, who has agreed to work in close cooperation with the student. Students are urged to begin research on their thesis topic during the summer preceding their senior year.

Students who elect to do a double major with another literature department may count up to three courses from that major toward their requirements in Comparative Literature.

The department encourages students to study abroad in pursuit of their cultural and linguistic interests, and the number of courses that may be counted toward the major will be determined in consultation with the faculty advisor and with the approval of the director of undergraduate studies.

The major enables students to pursue this commitment to a comparative study that includes a substantial non-English component by offering two tracks.

- A. Comparative Literary Studies. This track is designed for students who wish to place greater emphasis on literary study in their course work. Students who select this track are required to complete:
 1. Five courses in Comparative Literature at the 200 level and above.
 2. Five courses in literature or other areas of the humanities at the 200 or higher level, to be taken in one or more foreign literature departments. Texts must be read in the original language. A student may offer one advanced-level foreign language course (conversation, composition, etc.) toward fulfilling this requirement.
- B. Literary, Visual, and Media Studies. This track is designed for students who wish to pursue their comparative study of literature and theory by integrating rigorous work on film, video, or other arts and media. Students who select this track are required to complete:
 1. Four courses in literary study at the 200 or higher level offered by the Department of Comparative Literature

or other humanities departments or programs.

2. Six courses in visual arts or media studies at the 200 or higher level offered by the Department of Comparative Literature or other humanities departments or programs.

The following guidelines might be used to determine whether a course in Literary, Visual, and Media Studies may be counted toward the five courses in non-English cultural study required of all majors. Where the media involve a large component of speech or writing (such as film, video, or hypertext), the student would need to work with this material in the original foreign language. Where text or speech in a foreign language is peripheral in a course that focuses on visual material (such as art or architecture) from non-English cultures, the student would need to draw on primary and secondary materials in a foreign language for oral reports, papers, and so forth. Because of the flexibility and interdisciplinary range of this track, students who select it should work closely with their faculty advisor to organize a coherent plan of study and to determine, with the approval of the Director of Undergraduate Studies, which courses satisfy the foreign language requirement of the major.

Honors

A student who completes the requirements for the major is eligible for the degree of bachelor of arts with honors in Comparative Literature. The department bases its decision on the students achieving grades of at least B+ on the senior essay, in course work for the major, and in their overall academic performance at Cornell.

First-Year Writing Seminars

Most 100-level courses may be used toward satisfying the first-year writing seminar requirements. See "John S. Knight Institute for Writing in the Disciplines" for a full description of the first-year seminar program.

Courses

COM L 200(2000) Introduction to Visual Studies (also VISST 200[2000], ENGL 292[2920]) (LA)

Spring. 4 credits. T. Murray. For description, see VISST 200.

[COM L 201(2010) Great Books # (LA)]

Fall. 4 credits. COM L 201 and 202 may be taken independently of each other. Next offered 2007–2008. Staff.

A reading of seminal texts that represent and have shaped Western culture and hence form an essential part of the student's intellectual equipment. By evaluating and interpreting selections from the Bible, Homer, Virgil, Lady Murasaki, Dante, Castiglione, and Shakespeare, students gain practice in critical reading, thinking, and writing.]

COM L 202(2020) Great Books (LA)

Spring. 4 credits. A. Banerjee. The course traces the evolution of the story of the road as theme, trope, and organizing principle of seminal books from the Renaissance to the postmodern. Through readings of Rabelais, Cervantes, Swift, Sterne, Twain, Gogol, Conrad, Hemingway, Nabokov, and Kerouac, we will explore how literary adventures structure our experience of the world.

COM L 203(2030) Introduction to Comparative Literature (LA)

Fall. 4 credits. W. J. Kennedy.

The course is intended to answer the question persistently asked by undergraduates: "What is comparative literature, anyway?" The format of the course is designed to acquaint students with the range and variety of the field by having members of the Department present those aspects that reflect their areas of expertise and their methods of teaching. Of the three meetings each week, the first will generally take the form of a lecture; the second will be a discussion of the assigned text. Text and topics range from bawdy tales by Chaucer and Boccaccio to the naturalism of Thomas Mann and the trauma of post-colonial identity politics, and from modern American poetry to post-modern critical theory. All readings in English translation. Open to majors and prospective majors as well as students intending majors other than Comparative Literature.

COM L 204(2040) Global Fictions (CA)

Summer, 3-week. 4 credits. B. Maxwell.

What does the world write when it has a story to tell? Literature courses frequently define themselves according to geographies of nation or continent. By contrast, this course considers the globe as the limit-unit for the production of fiction. Are endless (and illuminating) differences all that we discover, or can we validly and gainfully observe shared features of fictions from markedly different parts of the globe. Can we take up the dare that fiction puts before us, to learn about the world from stories and novels? Can we take up the dare that translation puts before us, to read in literatures from places wholly unfamiliar to us? Readings are drawn mainly, but not only, from the contemporary period.

[COM L 205(2050) Introduction to Poetry (LA)]

Fall. 4 credits. Next offered 2007–2008. W. J. Kennedy.]

[COM L 215(2150) SSP: Comparative American Literatures (also AM ST 215[2150]) (LA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007–2008. B. Maxwell.]

COM L 220(2200) Thinking Surrealisms (also ART H 219[2019], VISST 219[2190]) (LA)

Spring. 4 credits. B. Maxwell.

Borrowing its title from a formulation of the Marxist philosopher Ernst Bloch, and beginning from the "forays of demoralization" instigated by the Dadas, who bequeathed to surrealism the precious gift of unreconciliation to the given, this course will range over the protean expressiveness of several surrealist movements of the last century. The inception of surrealist precept and practice in Paris in the mid-1920s will be a consideration, perhaps only slightly more central to the course than the explicitly anti-fascist political phase of the 1930s and 40s; the supplementation of Parisian surrealism by Caribbean, Mexican, African American, Quebecois, and Mauritian writers and artists; the renegade practice of Hans Bellmer and the unschooled surreality of Eugene Atget; the reflections of and on surrealism by Walter Benjamin, Ernst Bloch, and Theodor W. Adorno; the relations of surrealism to the Situationist International; and the recent critiques of surrealism in fiction (Milan Kundera) and scholarship (Hal Foster). Throughout, the course will ask what the

proliferation of "thinking surrealisms" meant to 20th-century culture and politics. All readings in English.

COM L 231(2310) Holy War, Jihad, Crusade (also HIST 269[2691], JWST 251[2651], NES 251[2651]) @ # (HA)

Fall. 4 credits. R. Brann.

For description, see NES 251.

COM L 236(2360) Greek Mythology (also CLASS 236)

Summer. 3 credits. D. Mankin.

For description, see CLASS 236.

COM L 276(2760) Desire (also ENGL 276[2760], THETR 278[2780], FGSS 276[2760]) (LA)

Spring. 4 credits. E. Hanson.

For description, see ENGL 276.

COM L 277(2770) Literatures of the Black Atlantic: Reading the Contemporary (also ENGL 277[2770], AS&RC 277[2504]) (LA)

Spring. 4 credits. D. Woubshet.

For description, see ENGL 277.

[COM L 282(2820) Japanese Animation and New Media (ASIAN 282[2822], VISST 282[2820]) @ (CA)]

Fall. 4 credits. Next offered 2007–2008.

T. Lamarre.

For description, see ASIAN 282.]

COM L 293(2930) SSP: Middle Eastern Cinema (also NES 293[2793], FILM 293[2930], VISST 293[2193], JWST 291[2793]) @ (LA)

Fall. 4 credits. Limited to 15 students.

D. Starr.

For description, see NES 293.

COM L 302(3020) Literature and Theory (also COM L 622[6220], ENGL 302/602[3020/6020]) (LA)

Fall. 4 credits. J. Culler.

For description, see ENGL 302.

[COM L 304(3040) Europe and Its Others: An Introduction to the Literature of Colonialism @ (LA)]

Fall. 4 credits. Next offered 2007–2008.

N. Melas.]

[COM L 306(3060) Comparative Martial Arts Film and Literature @ (LA)]

Fall. 4 credits. Next offered 2007–2008.

P. Liu.]

[COM L 317(3170) Postcolonial State Theory (CA)]

Spring. 4 credits. Next offered 2007–2008.

P. Liu.]

COM L 319(3910) Objects on Objects: Women Writers and the Aesthetics of the Modern (also FGSS 341[3410]) (LA)

Fall. 4 credits. D. Reese.

For description, see FGSS 341.

COM L 326(3260) Christianity and Judaism (also RELST 326[3260]) # (LA)

Spring. 4 credits. C. Carmichael.

Study of the New Testament as a product of the first-century Palestinian and Hellenistic Judaism. Other text (also in translation): *The Passover Haggadah*.

COM L 328(3280) Literature of the Old Testament (also RELST 328[3280]) @ # (LA)

Fall. 4 credits. C. M. Carmichael.

Analysis of small sections of well-known material for in-depth discussion.

COM L 332(3320) Technologies of Knowledge (also ASIAN 352[3352]) @ # (CA)

Fall. 4 credits. B. Rusk.

For description, see ASIAN 352.

COM L 335(3350) Modern Western Drama, Modern Western Theater: Theory and Practice (also THETR 335[3350], VISST 335[3735]) (LA)

Fall. 4 credits. S. Warner.

For description, see THETR 335.

COM L 341(3410) Imagining America: Race and National Fantasy in French and Italian Writing (also AM ST 326[3031], FRLIT 324[3240], GOVT 303[3031]) (CA)

Fall. 4 credits. D. Rubenstein.

For description, see AM ST 326.

COM L 344(3440) Tragic Theatre (also CLASS 345[3646], THETR 345[3450]) # (LA)

Fall. 4 credits. F. Ahl.

For description, see CLASS 345.

COM L 348(3480) Shakespeare and Europe (also ENGL 349[3490]) (LA)

Fall. 4 credits. W. J. Kennedy.

In their own times, Shakespeare's plays registered a strong interest in the culture and society of Renaissance Europe beyond England. In later times, they cast a powerful spell over culture and society in 19th- and 20th-century Europe. This course will examine their debts to and influences upon continental drama. Readings will focus upon Shakespeare's plays in relation to Italian comedy, early French tragedy, and plays by Anton Chekhov, Bertolt Brecht, and Yasmina Reza.

COM L 350(3500) Education and Philosophical Fantasies (also RUSSL 350[3550]) # (LA)

Fall. 4 credits. P. Carden.

For description, see RUSSL 350.

COM L 353(3530) Monsters A-X-files (also FRLIT 353/FGSS 353[3530])

Fall. 4 credits. K. Long.

For description, see FRLIT 353.

COM L 355(3550) Decadence (also ENGL 355[3550]) (LA)

Fall. 4 credits. E. Hanson.

For description, see ENGL 355.

COM L 356(3560) Renaissance Literature (also ENGL 320[3200]) # (LA)

Spring. 4 credits. W. J. Kennedy.

An introduction to Renaissance literary texts with some attention to cultural backgrounds and intellectual history. Readings from Machiavelli, Erasmus, Rabelais, Shakespeare, Cervantes, and others.

[COM L 362(3620) The Culture of the Renaissance II (also ENGL 325[3250], HIST 364[3640], MUSIC 390[3242], ART H 351[3420], FRLIT 362[3620]) # (CA)]

Fall. 4 credits. Required F sec. Next offered 2007–2008. W. J. Kennedy.]

COM L 363(3630) The European Novel # (LA)

Fall. 4 credits. N. Saccamano.

This course will survey the history of the novel until the mid-19th century, focusing on the social, literary, and philosophical significance of its narrative forms. Topics to

be discussed: the novel as a site of conflict between "high" and "low" culture; the relation of fictional narrative to historical and autobiographical narrative; the gender politics and class ideology of romance. Texts may include Lazarillo de Tormes or Cervantes' *Don Quixote*, Fielding's *Tom Jones*, Laclós's *Dangerous Liaisons*, Goethe's *The Sorrows of Young Werther*, Brontë's *Wuthering Heights*.

[COM L 364(3640) The European Novel # (LA)]

Spring. 4 credits. W. Cohen.

Covering the period from 1850 to 1940. Formal emphasis will fall on realism and modernism, the latter as a radicalization and break with the former, and both as aesthetic acts of cognition, as distinctive ways of conceptualizing the world sometimes, perhaps, unavailable in philosophical or social thought. Thematic emphasis will center on Europe and its outside—geopolitical, religious, ideological, sexual, etc. Readings: Dostoevsky, *Crime and Punishment*; Tolstoy, *War and Peace* (major selections); Kafka, "The Judgment," "The Metamorphosis," "In the Penal Colony," "Before the Law"; Proust, *Swann's Way*, opening, and *Sodom and Gomorrah*, opening; Joyce, *Ulysses* (major selections); Woolf, *Mrs. Dalloway*.

[COM L 365(3650) Contemporary Fiction @ (LA)]

Fall. 4 credits. Limited to 15 students. Next offered 2007-2008. B. Maxwell.]

[COM L 379(3790) Southeast Asian Literature in Translation (also ASIAN 379(379)) @ (LA)]

Fall. 4 credits. L. Paterson.

For description, see ASIAN 379.

[COM L 386(3860) Literature and Film of South Asia (also ASIAN 387(387), VISST 387(3870)) @ (CA)]

Fall. 4 credits. Next offered 2007-2008. A. Banerjee.]

[COM L 400(4000) Forms of the Novel (LA)]

Fall. 4 credits. Next offered 2007-2008. P. Liu.]

[COM L 401(4010) Open Secrets: Studies in Narrative (also ENGL 401(4010)) (LA)]

Fall. 4 credits. Limited to 15 students. Next offered 2007-2008. A. François.]

[COM L 408(4080) Martial Arts Film and Literature: Globalization from the East (also ASIAN 452(4452), S HUM 408)]

Fall. 4 credits. Limited to 15 students. P. Liu.

For description, see S HUM 408.

[COM L 410(4100) Science, Technology, and Culture (also S&TS 412(4101)) (CA)]

Fall. 4 credits. Next offered 2007-2008. A. Banerjee.]

[COM L 415(4150) The Theory and Analysis of Narrative (LA)]

Spring. 4 credits. Next offered 2007-2008. J. Culler.]

[COM L 419-420(4190-4200) Independent Study]

419, fall; 420, spring. Variable credit. COM L 419 and 420 may be taken independently of each other. Applications available in 247 Goldwin Smith Hall.

[COM L 421(4210) Terrorism and Its Representations (also ENGL 497(4970))]

Fall. 4 credits. E. Hyman.

In this course, we will examine authors whose work corresponds to particular moments both in the development of the novel and the development of terrorism as a feature of modern life. From anarchist acts of the late 19th century to the transnational terror of the 21st, we will investigate how writers have attempted to understand the phenomenon of revolutionary or terrorist violence, exploring how terrorism at once depends upon representation (a sort of symbiotic relationship with the media) and defies representation altogether. Consequently, we will look not only at realist/historicist accounts of terrorist acts, but also avant-garde notions of l'acte gratuite, "the mythology of ends," and pure expenditure. Ultimately, we will explore how the gratuitous, excessive or spectacular nature of these acts comes to underscore a crisis around language and rationality in the twentieth century.

[COM L 426(4260) New Testament Seminar (also RELST 426(4260)) # (HA)]

Spring. 4 credits. Limited to 15 students. C. Carmichael.

Topic: Sex and religion in the Bible. Identification and discussion of problems in the New Testament. Discussing attitudes to sexuality in the Bible, we will examine in Old and New Testament texts the clash between ancestral behavior and subsequent laws, as well as the contrast between legal and religious ideas. Topics will include: marriage and divorce, incest, intermarriage, gender discrimination, guilt and shame, homosexuality, women and purity, sexual language and symbols. It should be possible to say something new about the topics and also, because of the perennial nature of the issues, to say something that is relevant to contemporary life.

[COM L 428(4280) Biblical Seminar (also RELST 427(4280)) # @ (HA)]

Fall. 4 credits. Limited to 15 students. C. Carmichael.

A study of how biblical ethical and legal rules (in Exodus, Leviticus, and Deuteronomy) comment on incidents in the biblical narratives (Genesis-2 Kings). The link between law and narrative enables us to observe in detail how ancient thinkers evaluate ethical and legal problems of perennial interest.

[COM L 431(4310) Animation of Animal Philosophy (also ASIAN 454(4454)) (CA)]

Fall. 4 credits. T. Lamarre.

For description, see ASIAN 454.

[COM L 432(4320) Time and the Other (also S HUM 424)]

Spring. 4 credits. N. Melas.

For description, see S HUM 424.

[COM L 433(4330) Electronic Innovations (also ENGL 433(4330), VISST 433(4133)) (CA)]

Fall. 4 credits. Next offered 2007-2008. T. Murray.]

[COM L 438(4380) Arendt, Morisaki, Weil (also COM L 624(6240), ASIAN 468(668)(4468/6668)]

Fall. 4 credits. Limited to 20 students. B. deBary.

For description, see ASIAN 468.

[COM L 441(4410) Derrida, Writing, and the Institution of Literature (also COM L 641(6410), ENGL 441/642(4410/6240)) (LA)]

Spring. 4 credits. Prerequisite: reading knowledge of French. Next offered 2007-2008. J. Culler.]

[COM L 442(4420) Culture, Sovereignty, the State (also S HUM 420)]

Spring. 4 credits. M. Hart.

For description, see S HUM 420.

[COM L 443(4430) Partitioned Postmodernity and Anomalous Colonies in East Asia (also S HUM 425)]

Spring. 4 credits. Limited to 15 students. P. Liu.

For description, see S HUM 425.

[COM L 446(4460) Metafiction (also ENGL 455(4550))]

Fall. 4 credits. W. Cohen.

A reading of Cervantes' *Don Quixote*, Melville's *Moby-Dick*, and Joyce's *Ulysses* that brings together a formalist interest in self-referentiality with a culturalist, postcolonial concern with inter-ethnic relations. Emphasis on the ways in which a radical commitment to realist narrative paradoxically ends up calling the very enterprise of realism into question. The resulting formal originality raises epistemological doubts that are in turn linked to a social critique, the latter arising from the authorial incorporation of marginal voices. The broader aim of the course, aided by some attention to criticism of the three texts and theories of fiction, is thus to reject the separation of aesthetic from sociological concerns.

[COM L 448(4480) The City as Text (also SPANL 442(4420))]

Spring. 4 credits. Core Course for COM L majors. Limited to 15 students. J. R. Resina.

Ever since Hegel observed that the city was the stage of modern life, Western culture has been consciously bound to the growth and transformation of cities. It has also been argued that the modern novel is intimately linked to such urban processes. This course will explore representations of the city in European narrative and film of the 19th and 20th centuries. Sociological approaches to the urban experience will be taken into consideration, as well as the literary process by which the modern image of the city was constituted. Some of the authors and film directors discussed will be Dickens, Balzac, James, Mann, Calvino, Benjamin, Rodoreda, Vertov, Ruthmann, Almodovar, Guerin.

[COM L 450(4500) Renaissance Poetry (also COM L 650(6500), ITAL 450(650)) # (LA)]

Spring. 4 credits. W. J. Kennedy.

A reading and discussion of key texts in lyric poetry from Italian, French, English, and other European literatures of the Renaissance. Topic for Spring 2007: Economic transactions and exchanges in the poetry of Petrarch, Michelangelo, Labe, Ronsard, Shakespeare, Mary Wroth, and others.

[COM L 452(4520) Renaissance Humanism (also COM L 652(6520)) # (LA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007-2008. W. J. Kennedy.]

[COM L 458(4580) Narratives of Travel, Migration, and Exile (CA)]

Fall. 4 credits. Limited to 15 students. Next offered 2007–2008. A. Banerjee.]

[COM L 463(4630) Moses Maimonides and Mediterranean Islamic and Jewish Culture (also JWST 440[4540], RELST 440[4540])]

Spring. 4 credits. R. Brann.
For description, see JWST 440.

[COM L 470(4700) Translation and Cultural Difference (also ASIAN 481[4481])]

Fall. 4 credits. Limited to 15 students. Core Course for COM L majors. N. Sakai.
Problems concerning translation are explored in this course. We will survey the theories of translation with a special emphasis on the relationship between trans-national translation and trans-national transference that establishes a division of two spheres and thereby marks the limit of what can be expressed in one medium. Broadly understood, however, translation can take place not only between two national languages but also at a variety of boundaries within a single society. The seminar will investigate different modes of translation by which different social and cultural identities are constructed, emphasizing the disappearance of multi-lingualism and the emergence of philology in the modern nation-state. The historical transformation of translation and the accompanying genesis of linguistic and cultural identity will be examined in reference to historical materials.

[COM L 474(4740) Topics in Modern European Intellectual and Cultural History (also HIST 474[4740], JWST 474/674[4740/6740])]

Fall. 4 credits. Prerequisite: permission of instructor. D. LaCapra.
Topic: History and critical theory. For description, see HIST 474.

[COM L 480(4800) Baudelaire in Context (also COM L 680[6800], FRLIT 488/688[4880/6880]) # (LA)]

Spring. 4 credits. Prerequisite: reading knowledge of French. J. Culler.
Study of *Les Fleurs du Mal* in relation to the tradition of the lyric and modern critical theory. Topics of special interest include: structures of address, the role of the Devil, and Baudelaire's relation to Romanticism and to the traditions of love poetry. Reading knowledge of French required.

[COM L 481(4810) Studies in Gender Theory: Kinship and Embodiment (also FGSS 480[4800]) (CA)]

Spring. 4 credits. Limited to 15 students.
Next offered 2007–2008. P. Liu.]

[COM L 483(4830) Imagining the Holocaust (also ENGL 458/658[4580/6580], GERST 457[4570]) (LA)]

Spring. 4 credits. D. Schwarz.
For description, see ENGL 458.

[COM L 486(4860) Contemporary Poetry and Poetics (also ENGL 488[4880], FRLIT 435[4350], SPANL 474[4740]) (LA)]

Fall. 4 credits. Next offered 2008–2009.
J. Monroe.]

[COM L 493(4930) Senior Essay]

Fall and spring. 8 credits.
Times TBA individually in consultation with director of Senior Essay Colloquium.

Approximately 50 pages to be written over the course of two semesters in the student's senior year under the direction of the student's advisor. An R grade is assigned on the basis of research and a preliminary draft completed in the first semester. A letter grade is awarded on completion of the second semester.

[COM L 496(4960) Imagining the Mediterranean (also NES 438[4738], JWST 438[4738])]

Fall. 4 credits. G. Holst-Warhaft.
For description, see NES 438.

[COM L 497(4970) Sexual Citizenship (also FGSS 497[4970], FRLIT 495[4950])]

Spring. 4 credits. Core course for COM L majors. Limited to 15 students. L. Hyman.
The objective of this course is to understand the ways in which sexual and political economy have converged and diverged in theories of the public and private sphere. Beginning with reading some founding texts of modern notions of citizenship, we will examine how the mythical establishment of civil society as a social contract also entails a "sexual contract." We will then turn to literary works of the 19th and 20th centuries, assessing the ways that they support or disrupt sexual contracts of various kinds, such as those of marriage, prostitution or enslavement. We will also consider the way that discourses around homosexuality—from the late 19th century to our own day—put into question the sexual and marital relations that underpin State order. Readings will include Rousseau, Kant, de Sade, Masoch, Balzac, Wilde, Zola and others.

[COM L 601(6010) Readings of Recollection (also GERST 638[6380])]

Fall. 4 credits. P. Gilgen.
For description, see GERST 638.

[COM L 605(6050) Contemporary Global Fiction (also ENGL 683[6830])]

Spring. 4 credits. W. Cohen.
The post-1945 novel, understood as the first full instance of world literature. Emphasis on global transformations of a primarily European genre. Issues of form—realism, modernism, postmodernism—and of relations among languages, nations, social systems, and continents in the modern world system. Discussion of race and empire, gender, and class. Probable readings: García Márquez, *One Hundred Years of Solitude*; Kundera, *The Unbearable Lightness of Being*; Morrison, *Beloved*, and/or Nabokov, *Lolita* or *Pale Fire*; Rushdie, *Midnight's Children*; and some of the following writers: Mann or Grass; Achebe or Ngugi; Kawabata or Mishima; Eileen Chang or Wang Anyi; El Saadawi or Mahfouz; Hagedorn or Toer; Chamoiseau or Naipaul; Wendt or Hulme.

[COM L 609(6090) Comparison and Cultural Difference]

Fall. 4 credits. Next offered 2007–2008.
N. Melas.]

[COM L 619–620(6190–6200) Independent Study]

619, fall; 620, spring. Variable credit. COM L 619 and 620 may be taken independently of each other. Applications available in 247 Goldwin Smith Hall.

[COM L 622(6220) Literature and Theory (also COM L 302[3020], ENGL 302/602[3020/6020])]

Fall. 4 credits. J. Culler.
For description, see ENGL 302.

[COM L 623(6230) Walter Benjamin (also GERST 639[6390])]

Spring. 4 credits. A. Schwarz.
For description, see GERST 639.

[COM L 624(6240) Arendt, Morisaki, Weil (also COM L 438[4380], ASIAN 468/668[4440/6668])]

Fall. 4 credits. B. deBary.
For description, see ASIAN 468.

[COM L 626(6260) Thinking the Event: Alain Badiou's Philosophy (also FRLIT 444/644[4440/6440])]

Spring. 4 credits. B. Bosteels.
For description, see FRLIT 444.

[COM L 630(6300) Aesthetics in the 18th Century (also ENGL 630[6300])]

Fall. 4 credits. Next offered 2007–2008.
N. Saccamano.]

[COM L 634(6340) Deleuze and Lyotard: Aesthetics (also ENGL 629[6290], FRLIT 672[6720], VISST 634[6340])]

Fall. 4 credits. Next offered 2007–2008.
T. Murray.]

[COM L 636(6360) Comparative Modernisms/Alternative Modernities]

Fall. 4 credits. Limited to 15 students.
N. Melas.

This course will inquire into the geographical coordinates that alternately relay and obscure the relation between modernism as an aesthetic movement and modernity as world-historical and political-economic project. Central emphasis will fall on colonialism and its particular inflection of the temporality of modernist aesthetics and the progress of modernity in the two regions that will be our focus: the French Caribbean and Mediterranean Egypt. While including canonical theoretical texts on Western modernity, modernism and postcolonial theory, readings will be focussed on the multiple and intersecting influences around two central figures, Martinican poet Aimé Césaire and the modern Greek Alexandrian poet, Constantine Cavafy.

[COM L 638(6380) Comparative Literacy: The 18th C and Literary Modernity (also ASIAN 626[6626])]

Spring. 4 credits. Next offered 2007–2008.
N. Sakai.

For description, see ASIAN 626.]

[COM L 641(6410) Derrida, Writing, and the Institution of Literature (also COM L 441[4410], ENGL 441/642[4410/6420])]

Spring. 4 credits. Next offered 2007–2008.
J. Culler.]

[COM L 650(6500) Renaissance Poetry (also COM L 450[4500], ENGL 622[6220], ITALL 450/650[4500/6500])]

Spring. 4 credits. W. J. Kennedy.
For description, see COM L 450.

[COM L 652(6520) Renaissance Humanism (also COM L 452[4520])]

Spring. 4 credits. Limited to 15 students.
Next offered 2007–2008. W. J. Kennedy.]

[COM L 657(6570) Baroque (also GERST 627[6270])]

Fall. 4 credits. G. Waite.
For description, see GERST 627.

[COM L 662(6620) Cinematic Desire (also ENGL 660[6600])]

Spring. 4 credits. E. Hanson.

[COM L 665(6650) The Literature of Empire in the Renaissance (also ENGL 626(6260))

Spring. 4 credits. Next offered 2007-2008.
W. Cohen.]

[COM L 668(6680) Theorizing Gender and Race in Asian Histories and Literatures with a Particular Focus on Japanese Cases (also COM L 398(3980), ASIAN 388/688(3388/6688))

Fall. 4 credits. Next offered 2007-2008.
N. Sakai.]

[COM L 673(6730) Topics in Modern European Intellectual and Cultural History (also HIST 673(6730), JWST 674(6674))

Fall. 4 credits. D. LaCapra.
For description, see HIST 673.

[COM L 675(6750) Critical Passions (also ENGL 675(6750))

Spring. 4 credits. Next offered 2007-2008.
A. Francois.]

[COM L 680(6800) Baudelaire in the Lyric (also FRLIT 688(6880))

Spring. 4 credits. J. Culler.
For description, see COM L 480.

[COM L 688(6880) Wordsworth and Rousseau (also ENGL 741(7410))

Spring. 4 credits. C. Chase.
A study of the contrasting autobiographies (beginning with the fact that one is in prose and the other in poetry) written at the turn of the 18th century by Jean-Jacques Rousseau and William Wordsworth, and other texts which reveal, in spite of great differences in genre and subject matter, their common concerns, such as memory, poetic language, and the significance of literature. Writing requirements: two ten-page papers, short writing assignments, oral presentation. Some knowledge of French recommended but not required.

[COM L 689(6890) Adorno's Aesthetic Theory (also GERST 689(6890))

Fall. 4 credits. P. Hohendahl.
For description, see GERST 689.

[COM L 692(6920) Digital Bodies, Virtual Identities (also ENGL 696(6960), THETR 633(6330))

Fall. 4 credits. T. Murray.
For description, see ENGL 696.

[COM L 697(6970) Cosmopolitanism (also ENGL 697(6970))

Spring. 4 credits. N. Saccamano.

COMPUTER SCIENCE

E. Tardos, chair; G. Bailey, K. Bala, K. Birman, C. Cardie, R. Caruana, R. L. Constable, R. Elber, D. Fan, P. Francis, J. Gehrke, D. Greenberg, D. Gries, J. Halpern, J. E. Hopcroft, D. Huttenlocher, T. Joachims, U. Keich, J. Kleinberg, R. Kleinberg, D. Kozen, L. Lee, S. Marschner, A. Myers, R. Ruzina, F. B. Schneider, D. Schwartz, B. Selman, D. Shmoys, E. G. Sier, E. Tardos, R. Teitelbaum, C. Van Loan, S. Vavasis, R. Zabih

The Department of Computer Science is affiliated with both the College of Arts and Sciences and the College of Engineering. Students in either college may major in

Computer Science. For details, visit our web site at www.cs.cornell.edu/ugrad.

The Major

CS majors take courses in algorithms, data structures, logic, programming languages, scientific computing, systems, and theory. Electives in artificial intelligence, computer graphics, computer vision, databases, multimedia, and networks are also possible. Requirements include:

- three semesters of calculus (MATH 111-122 (or 112)-221 or 191-192-294)
- two semesters of introductory computer programming (COM S 100 and 211)
- a 1-credit project (COM S 212)
- a seven-course Computer Science core (COM S 280, 312, 314, or 316; one of 321, 322, 421, or 428; 381, 414, and 482)
- two 400+ Computer Science electives, totaling at least 6 credits (COM S 490 not allowed)
- a Computer Science project course (COM S 413, 415, 419, 433, 468, 473, 501, 514, or 664)
- a mathematical elective course (e.g., ENGRD 270, MATH 222 or 293, MATH 300+, T&AM 310)
- two 300+ courses that are technical in nature and total at least 6 credits
- a three-course specialization in a topic area other than Computer Science. These courses must be numbered 300 level or greater.

Note: All of the field electives described above must be courses of 3 or more credit hours with the exception of the COM S project course, which is 2 credits or more.

The program is broad and rigorous, but it is structured in a way that supports in-depth study of outside areas. Intelligent course selection can set the stage for graduate study and employment in any technical area and any professional area such as business, law, or medicine. With the advisor, the Computer Science major is expected to put together a coherent program of study that supports career objectives and is true to the aims of liberal education.

Admission

All potential affiliates are reviewed on a case-by-case basis relative to the following criteria:

- a grade of C or better in all COM S courses and MATH courses
- a GPA of 2.5 or better in COM S 211, 212, and 280.
- a GPA of 2.5 or better in MATH 112, 122, or 192 and COM S 280.

Courses used in the affiliation GPA computations may be repeated if the original course grade was below a C. The most recent grade will be used for all repeated courses. Qualifying courses must be taken at Cornell.

Departmental honors in Computer Science is granted to students who have maintained a cumulative GPA greater than or equal to 3.5 and completed a set of coherent courses and research activities that satisfy the following requirements:

- at least one COM S course (at least 3 credit hours) at or above the 500 level with a grade of A- or better; no seminars.
- at least two semester-long 3-credit courses of COM S 490 (Independent Research) with a COM S faculty member, with grades of A- or better each semester.

Latin Designations (appended to the degree), awarded by the field of Computer Science for all who qualify as stated above, are based on the final cumulative GPA, as follows:

- *cum laude*, 3.50 or above
- *magna cum laude*, 3.75 or above
- *summa cum laude*, 4.00 or above

Note: Honors courses may not be used to satisfy the COM S 400+ elective requirement, the COM S project requirement, the math elective, the technical electives, or the specialization. See the COM S undergraduate web site for more information on eligibility: www.cs.cornell.edu/ugrad.

Computing in the Arts Undergraduate Concentration

A concentration in Computing in the Arts with an emphasis on computer science is available both to Computer Science majors and to students majoring in other subjects. For more information, see p. 509.

Courses

For complete course descriptions, see "Computer Science" under "Computing and Information Science (CIS)."

COM S 099(1109) Fundamental Programming Concepts

Summer. 2 credits. Freshmen only.
Prerequisites: none. S-U grades only.

COM S 100(1110, 1112) Introduction to Computer Programming (MQR)

Fall, spring, summer. 4 credits.
Four versions of COM S 100 are offered. COM S 100J, COM S 100M, and COM S 100R are offered in the fall. COM S 100H, COM S 100J, and COM 100M are offered in the spring. COM S 100J is offered in the summer. All versions are described in the "Computing and Information Science (CIS)" section.

COM S 101(1710) Introduction to Cognitive Science (also COGST 101(1101), LING 170(1170), PHIL 191(1910), PSYCH 102(1200)) (KCM)

Fall, summer. 3 credits.
For description, see COGST 101.

COM S 113(2000) Introduction to C

Fall, spring, usually weeks 1-4. 1 credit.
Prerequisite: COM S 100 or equivalent programming experience. Credit granted for both COM S 113 and 213 only if 113 taken first. S-U grades only.

COM S 114(2006) Unix Tools

Fall, usually weeks 5-8. 1 credit.
Prerequisite: COM S 100 or equivalent programming experience. Recommended: knowledge of at least one programming language. S-U grades only.

COM S 130(1300) Introductory Design and Programming for the Web (also INFO 130(1300))

Fall. 3 credits. Prerequisites: none. No computer background necessary.

COM S 165(1610) Computing in the Arts (also ART 175, CIS 165[1610], DANCE 165[1540], ENGRI 165[1610], MUSIC 165[1465], PSYCH 165[1650])

Spring. 3 credits. Recommended: good comfort level with computers and some of the arts.

COM S 167(1620) Visual Imaging in the Electronic Age (also ART 170[1700], CIS 167[1620], ENGRI 167[1670])

Spring. 3 credits.

For description, see ART 170.

COM S 172(1700) Computation, Information, and Intelligence (also COGST 172, ENGRI 172[1700], INFO 172[1700]) (MQR)

Fall. 3 credits. Prerequisite: some knowledge of differentiation; permission of instructor for students who have completed equivalent of COM S 100.

COM S 201(2710) Cognitive Science in Context Laboratory (also COGST 201, PSYCH 201[2010]) (KCM)

Fall or spring. 4 credits. Limited to 24 students. Recommended: concurrent or prior registration in PSYCH 102/COGST 101/COM S 101/LING 170/PHIL 191. Knowledge of programming languages not assumed.

For description, see COGST 201.

COM S 211(2110) Computers and Programming (also ENGRD 211[2110]) (MQR)

Fall, spring, summer. 3 credits. Prerequisite: COM S 100 or equivalent course in Java or C++.

COM S 212(2111) Java Practicum

Fall, spring. 1 credit. Pre- or corequisite: COM S/ENGRD 211. Letter grades only.

COM S 214(2008) Advanced UNIX Programming and Tools

Spring, usually weeks 5–8. 1 credit. Prerequisite: COM S 114 or equivalent. S-U grades only.

COM S 215(2004) Introduction to C #

Fall, spring, usually weeks 5–8. 1 credit. Prerequisite: COM S/ENGRD 211 or equivalent experience. S-U grades only.

COM S 230(2300) Intermediate Design and Programming for the Web (also INFO 230[2300])

Spring. 3 credits. Prerequisite: COM S 130 or equivalent knowledge.

COM S 280(2800) Discrete Structures (MQR)

Fall, spring. 3 credits. Pre- or corequisite: COM S 100 or permission of instructor.

COM S 305(3050) Creative Problem-Solving in Computer Science

Spring. 3 credits. Prerequisites: COM S 211 and 280.

COM S 312(3110) Data Structures and Functional Programming (MQR)

Fall, spring. 4 credits. Prerequisite: COM S 211 and 212 or equivalent programming experience. Should not be taken concurrently with COM S 314 or 316.

COM S 314(3420) Computer Organization (also ECE 314[3140])

Spring. 4 credits. Prerequisite: COM S 211 or ENGRD 230. Should not be taken concurrently with COM S 312.

COM S 316(3410) Systems Programming

Fall. 4 credits. Prerequisites: COM S 211 or equivalent programming experience. Should not be taken concurrently with COM S 312.

[COM S 321(3510) Numerical Methods in Computational Molecular Biology (also BIOBM 321[3210], ENGRD 321[3510]) (MQR)]

Fall. 3 credits. Prerequisites: at least one course in calculus (e.g., MATH 106, 111, or 191) and course in linear algebra (e.g., MATH 221 or 294 or BTRY 417); COM S 100 or equivalent and some familiarity with iteration, arrays, and procedures; knowledge of discrete probability and random variables at the level of COM S 280. COM S majors and minors may use only one of the following toward their degree: COM S 321, 322, or 421. Offered odd-numbered years; next offered 2007–2008.]

COM S 322(3220) Introduction to Scientific Computation (also ENGRD 322[3220])

Spring, summer. 3 credits. Prerequisites: COM S 100 and MATH 221 or 294; knowledge of discrete probability and random variables at the level of COM S 280. COM S majors and minors may use only one of the following toward their degree: COM S 321, 322, or 421.

[COM S 324(3470) Computational Linguistics (also COGST 424[4240], LING 424[4424]) (MQR)]

Fall or spring. 4 credits. Prerequisites: LING 203. Labs involve work in UNIX environment; COM S 114 recommended. For description, see LING 424.]

COM S 330(3300) Data-Driven Web Applications (also INFO 330[3300])

Fall. 3 credits. Prerequisite: COM S/ENGRD 211. COM S majors may use only one of the following toward their degree: COM S/INFO 330 or COM S 433.

COM S 381(3810) Introduction to Theory of Computing

Fall, summer. 3 credits. Prerequisite: COM S 280 or permission of instructor. Credit not granted for both COM S 381 and 481; corrective transfers between COM S 381 and 481 (in either direction) encouraged during first few weeks of instruction.

[COM S 400(4150) The Science of Programming]

Fall. 3 credits. Prerequisite: COM S 211.]

COM S 411(4110) Programming Languages and Logics

Fall. 4 credits. Prerequisite: COM S 312 or permission of instructor.

COM S 412(4120) Introduction to Compilers

Spring. 3 credits. Prerequisites: COM S 312 (or permission of instructor) and COM S 314 or 316. Corequisite: COM S 413.

COM S 413(4121) Practicum in Compilers

Spring. 2 credits. Corequisite: COM S 412. A compiler implementation project related to COM S 412.

COM S 414(4410) Operating Systems

Fall, spring, summer. 3 credits. Prerequisite: COM S 314 or 316. Corequisite: COM S 415 in spring only.

COM S 415(4411) Practicum in Operating Systems

Fall, spring. 2 credits. Corequisite: COM S 414.

COM S 416(4420) Computer Architecture (also ECE 475)

Fall. 4 credits. Prerequisites: ENGRD 230 and COM S/ECE 314.

For description, see ECE 475.

COM S 419(4450) Computer Networks

Spring. 4 credits. Pre- or corequisites: COM 414 or permission of instructor.

COM S 421(4210) Numerical Analysis

Fall. 4 credits. Prerequisites: MATH 221 or 294 or equivalent, one additional mathematics course numbered 300 or above, and knowledge of programming. COM S majors and minors may use only one of the following toward their degree: COM S 321, 322, or 421.

COM S 426(4520) Introduction to Bioinformatics

Spring. 4 credits. Prerequisites: COM S/ENGRD 211, COM S 280.

COM S 428(4510) Introduction to Computational Biophysics

Fall. 3 credits. Prerequisites: COM S 100, CHEM 211 or equivalent, MATH 221, 293, or 294, PHYS 112 or 213, or permission of instructor. Recommended: BIOBM 330.

COM S 430(4300) Information Retrieval (also INFO 430[4300])

Fall. 3 credits. Prerequisite: COM S 211 or equivalent.

COM S 431(4302) Web Information Systems (also INFO 431[4302])

Spring. 3 credits. Prerequisites: COM S 211 and some familiarity with web site technology.

COM S 432(4320) Introduction to Database Systems

Fall. 3 credits. Prerequisites: COM S 312 (or 211, 212, and permission of instructor).

COM S 433(4321) Practicum in Database Systems

Fall. 2 credits. Prerequisite: COM S 432 or coregistration in COM S 432. COM S majors may use only one of the following toward their degree: COM S/INFO 330 or COM S 433.

COM S 465(4620) Computer Graphics I (also ARCH 374)

Fall. 4 credits. Prerequisite: COM S/ENGRD 211. May not be taken for credit after completion of COM S 417.

COM S 467(4630) Computer Graphics II

Spring. 3 credits. Prerequisite: COM S 465.

COM S 468(4631) Computer Graphics Practicum

Spring. 2 credits. Prerequisite: COM S 465. Corequisite: COM S 467.

COM S 472(4700) Foundations of Artificial Intelligence

Fall. 3 credits. Prerequisites: COM S 211 and 280 (or equivalent).

COM S 473(4701) Practicum in Artificial Intelligence

Fall. 2 credits. Corequisite: COM S 472.

COM S 474(4740) Introduction to Natural Language Processing (also COGST 474[4740], LING 474[4474])

Fall or spring. 4 credits. Prerequisite: COM S 211.

COM S 475(4702) Artificial Intelligence: Uncertainty and Multi-Agent Systems

Spring. 4 credits. Prerequisites: COM S/ENGRD 211 and COM S 280 or equivalent.

COM S 478(4780) Machine Learning

Spring. 4 credits. Prerequisites: COM S 280, 312, and basic knowledge of linear algebra and probability theory.

COM S 480(4870) Introduction to Cryptology (also MATH 335[3350]) (MQR)

Fall, spring. 3 credits. Prerequisite: COM S 100 and MATH 222 or 294. Students who take this course may not also receive credit for MATH 336.

For description, see MATH 335.

COM S 482(4820) Introduction to Analysis of Algorithms

Spring, summer. 4 credits. Prerequisites: COM S 280 and 312.

[COM S 483(4812) Quantum Computation (also PHYS 481/681[4481/7681])]

Spring. 2 credits. Prerequisite: familiarity with theory of vector spaces over complex numbers. Not offered every year; next offered 2007-2008.

For description, see PHYS 481.]

COM S 485(4850) Mathematical Foundations for the Information Age

Spring. 4 credits. Prerequisite: COM S 381.

COM S 486(4860) Applied Logic (also MATH 486[4860]) (MQR)

Fall or spring. 4 credits. Prerequisites: MATH 222 or 294, COM S 280 or equivalent (e.g., MATH 332, 432, 434, 481), and some additional course in mathematics or theoretical computer science.

For description, see MATH 486.

COM S 490(4999) Independent Reading and Research

Fall, spring. 1-4 credits.

COM S 501(5150) Software Engineering

Spring. 4 credits. Prerequisite: COM S 211 or equivalent experience programming in Java or C++.

COM S 513(5430) System Security

Fall. 4 credits. Prerequisites: COM S 414 or 419 and familiarity with JAVA, C, or C# programming languages.

COM S 514(5410) Intermediate Computer Systems

Spring. 4 credits. Prerequisite: COM S 414 or permission of instructor.

[COM S 516(5420) Parallel Computer Architecture (also ECE 572[5720])]

Spring. 4 credits. Prerequisite: ECE 475.

For description, see ECE 572.]

COM S 530(5300) The Architecture of Large-Scale Information Systems (also INFO 530[5300])

Spring. 4 credits. Prerequisite: COM S/INFO 330 or COM S 432.

[COM S 565(5640) Computer Animation (also ART 273, CIS 565[5640])]

Fall. 4 credits. Prerequisite: none.

For description, see ART 273.]

[COM S 566(5642) Advanced Animation (also ART 372/CIS 566[5642])]

Spring. 4 credits. Prerequisites: none.

For description, see ART 372.]

COM S 572(5722) Heuristic Methods for Optimization (also CEE 509[5090], CIS 572[5722], OR&IE 533[5340])

Fall. 3 or 4 credits. Prerequisites: COM S/ENGRD 211 or 322 or CEE/ENGRD 241, or graduate standing, or permission of instructor.

For description, see CEE 509.

COM S 578(5780) Empirical Methods in Machine Learning and Data Mining

Fall. 4 credits. Prerequisites: COM S 280 and 312 or equivalent.

COM S 611(6110) Advanced Programming Languages

Fall. 4 credits. Prerequisite: graduate standing or permission of instructor.

COM S 612(6120) Compiler Design for High-Performance Architectures

Spring. 4 credits. Prerequisites: COM S 314 and 412 or permission of instructor.

COM S 614(6410) Advanced Systems

Fall or spring. 4 credits. Prerequisite: COM S 414 or permission of instructor.

COM S 615(6460) Peer-to-Peer Systems

Spring. 4 credits. Recommended: COM S 614.

COM S 619(6450) Advanced Computer Networks

Fall. 4 credits. Prerequisites: COM S 419 or permission of instructor.

COM S 621(6210) Matrix Computations

Fall. 4 credits. Prerequisites: MATH 411 and 431 or permission of instructor.

COM S 622(6220) Numerical Optimization and Nonlinear Algebraic Equations

Spring. 4 credits. Prerequisite: COM S 621.

[COM S 624(6240) Numerical Solution of Differential Equations]

Spring. 4 credits. Prerequisites: exposure to numerical analysis (e.g., COM S 421 or 621), differential equations, and knowledge of MATLAB. Offered even-numbered years; next offered 2007-2008.]

COM S 626(6510) Computational Molecular Biology

Spring. 4 credits. Prerequisites: familiarity with linear programming, numerical solutions of ordinary differential equations, and nonlinear optimization methods.

COM S 628(6522) Biological Sequence Analysis

Fall. 4 credits. Prerequisites: none.

COM S 630(6300) Human Language Technology (also INFO 630[6300])

Spring. 4 credits. Prerequisite: basic knowledge of linear algebra and probability theory; basic programming skills.

COM S 632(6320) Database Systems

Spring. 4 credits. Prerequisite: COM S 432/433 or permission of instructor.

COM S 633(6322) Advanced Database Systems

Spring. 4 credits.

[COM S 664(6670) Machine Vision]

Fall. 4 credits. Prerequisites: undergraduate-level understanding of algorithms and MATH 221 or equivalent.]

COM S 665(6620) Advanced Interactive Graphics

Fall or spring. 4 credits. Prerequisites: COM S 465 and 467 or equivalent and undergraduate-level understanding of algorithms, probability and statistics, vector calculus, and programming.

[COM S 667(6630) Physically Based Rendering]

Fall or spring. 4 credits. Prerequisites: COM S 465 and 467 or equivalent and undergraduate-level understanding of algorithms, programming, and vector calculus.]

COM S 671(6762) Introduction to Automated Reasoning

Fall or spring. 4 credits. Prerequisite: COM S 611 and graduate standing or permission of instructor. Not offered every year.

COM S 672(6700) Advanced Artificial Intelligence

Spring. 4 credits. Prerequisite: COM S 472 or permission of instructor.

[COM S 673(6724) Integration of Artificial Intelligence and Operations Research (also CIS 673[6724])]

Spring. 3 credits.]

COM S 674(6740) Natural Language Processing

Spring. 3 credits. Prerequisite: COM S 472 or permission of instructor. COM S 474 is *not* a prerequisite.

[COM S 676(6764) Reasoning about Knowledge]

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic.]

[COM S 677(6766) Reasoning about Uncertainty]

Fall. 4 credits. Prerequisites: mathematical maturity and acquaintance with propositional logic.]

COM S 678(6780) Advanced Topics in Machine Learning

Spring. 4 credits. Prerequisites: COM S 478 or equivalent, or COM S 578 or equivalent, or permission of instructor. Not offered every year.

COM S 681(6820) Analysis of Algorithms

Fall. 4 credits. Prerequisite: COM S 482 or graduate standing.

[COM S 682(6810) Theory of Computing]

Spring. 4 credits. Prerequisite: COM S 381 or 481 and COM S 482 or 681 or permission of instructor. Not offered every year; next offered 2007-2008.]

COM S 683(6822) Advanced Design and Analysis of Algorithms

Spring. 4 credits. Prerequisite: COM S 681 or permission of instructor.

[COM S 684(6840) Algorithmic Game Theory]

Fall or spring. 4 credits. Prerequisite: background in algorithms and graphs at level of COM S 482. No prior knowledge of game theory or economics assumed.]

[COM S 685(6850) The Structure of Information Networks (also INFO 685(6850))

Fall or spring. 4 credits. Prerequisite: COM S 482.]

COM S 686(6860) Logics of Programs

Spring. 4 credits. Prerequisites: COM S 481, 682, and MATH 481 or MATH/COM S 486.

COM S 709(7090) Computer Science Colloquium

Fall, spring. 1 credit. For staff, visitors, and graduate students interested in computer science. S-U grades only.

COM S 711(7191) Seminar in Advanced Programming Languages

Fall or spring. 3 credits.

COM S 713(7491) Seminar in Systems and Methodology

Fall, spring. 4 credits. Prerequisites: graduate course employing formal reasoning (e.g., COM S 611, 613, 671), a logic course, or permission of instructor. Not offered every year.

COM S 714(7410) Topics in Systems

Fall or spring. 3 credits. Prerequisite: permission of instructor.

COM S 715(7192) Seminar in Programming Refinement Logics

Fall, spring. 4 credits. Prerequisite: permission of instructor.

COM S 717(7430) Topics in Parallel Architectures

Fall. 4 credits. Prerequisite: COM S 612 or permission of instructor. Not offered every year.

COM S 718(7690) Computer Graphics Seminar

Fall, spring. 3 credits.

COM S 719(7190) Seminar in Programming Languages

Fall, spring. 4 credits. Prerequisite: COM S 611 or permission of instructor. S-U grades only.

COM S 721(7210) Topics in Numerical Analysis

Fall, spring. 4 credits. Prerequisite: COM S 621 or 622 or permission of instructor. Not offered every year.

COM S 726(7590) Problems and Perspectives in Computational Molecular Biology

Fall, spring. 1 credit. Open to all from life sciences, computational sciences, and physical sciences. S-U grades only.

COM S 732(7320) Topics in Database Systems

Fall, spring. 4 credits. S-U grades only.

COM S 733(7390) Database Seminar

Spring. 1 credit. Prerequisite: COM S 633 or permission of instructor. S-U grades only.

COM S 750(7726) Evolutionary Computation and Design Automation (also CIS 750[7726], M&AE 650[6500])

Fall. 4 credits. Prerequisite: programming experience or permission of instructor.

COM S 754(7490) Systems Research Seminar

Fall, spring. 1 credit. S-U grades only.

COM S 764(7670) Visual Object Recognition

Spring. 3 credits. Prerequisite: none.

COM S 772(7790) Seminar in Artificial Intelligence

Fall, spring. 4 credits. Prerequisite: permission of instructor. S-U grades only.

COM S 775(7794) Seminar in Natural Language Understanding

Fall, spring. 2 credits.

COM S 785(7850) Seminar on Information Networks

Fall. 4 credits. Prerequisites: COM S 485 or 685 or permission of instructor.

COM S 786(7860) Introduction to Kleene Algebra

Spring. 4 credits. Prerequisites: COM S 481. Recommended: COM S 482 or 681, COM S 682, elementary logic (MATH 481 or 681), algebra (MATH 432).

COM S 789(7890) Seminar in Theory of Algorithms and Computing

Fall, spring. 4 credits. Prerequisite: permission of instructor. S-U grades only.

COM S 790(7999) Independent Research

Fall, spring. Prerequisite: permission of a Computer Science advisor.

Independent research for master of engineering project.

COM S 990(9999) Thesis Research

Fall, spring. Prerequisite: permission of a Computer Science advisor. S-U grades only.

Doctoral research.

COMPUTING IN THE ARTS UNDERGRADUATE CONCENTRATION

The computer plays a role in almost every aspect of human life, and its influence and potential now extend routinely not only to technical and commercial pursuits but also into the realms of the imaginative and the aesthetic. The Computing in the Arts concentration offers students opportunities to use computers to realize works of art, to study the perception of artistic phenomena, and to think about new, computer-influenced paradigms and metaphors for the experiences of making and appreciating art. Faculty from several departments in the college offer courses toward the concentration, drawing on disciplines in the arts, the social sciences, the humanities, and the physical sciences. Currently, the concentration is offered in five tracks: computer science, dance and film, music, and psychology, each described in more detail below. Students may concentrate in the same area as their major, or in a different area.

It is likely that additional tracks in other disciplines will be added to the concentration, indeed possible that this will have occurred after the publication deadline for this year's Courses of Study but in time to take effect in the 2006-2007 academic year. The director and area representatives listed below will always have the latest information.

Director

Graeme Bailey

Applying for the Concentration and Choosing Courses

Students should meet with the track representative in their chosen discipline for initial advising about the concentration. For 2006-2007, these representatives are Graeme Bailey (computer science track), Kevin Ernste (music track), Allen Fogelsanger (dance track), Marilyn Rivchin (film track), and Carol Krumhansl (psychology track).

Regardless of which track they choose, all students in the concentration are required to take the core course, Computing in the Arts (COM S 165, cross-listed as ART 175, CIS 165, ENGRI 165, MUSIC 165, and PSYCH 165). This course combines fundamental background in cognitive modeling, statistics, programming, and algorithmic thinking, as preparation for more specialized work; hence, though it is not a formal prerequisite to other courses, it should be taken as early as possible in the student's program. For students who have already gained an equivalent background through other courses, however, it may be waived by permission of the director.

In addition to the core course, each student chooses another five courses satisfying the following requirements:

1. At least one must entail a significant computing component, regardless of its home department (marked * in the lists below).
2. At least two must entail a significant artistic component (marked † in the lists below).
3. For students majoring in a field offering a track, none of the courses from that track may be double-counted as also satisfying major requirements.

The goal is to encourage the development of reasonable depth within one area, without neglecting the interdisciplinary nature of the field. Hence, rather than choosing courses at random from the lists below or focusing too narrowly on one particular corner of the field, each student should work actively with an advisor from his or her concentration in building an appropriate program.

Course Lists

Computer Science track. In addition to the core course, COM S 165, any five of the following. Note that some of these courses have COM S prerequisites.

†ART 170, Visual Imaging in the Electronic Age (also CIS 167, COM S 167, ENGRI 167)

*†CIS 300, Introduction to Computer Game Design

*COM S 211, Computers and Programming + 212, Java Practicum (together these count as one course)

*COM S 465, Computer Graphics I

*COM S 467, Computer Graphics II + 468, Computer Graphics Practicum (together these count as one course)

*COM S 472, Foundations of Artificial Intelligence

*COM S 474, Introduction to Natural Language Processing

*COM S 478, Machine Learning

*COM S 565, Computer Animation

*COM S 566, Advanced Computer Animation

*COM S 578, Empirical Methods in Machine Learning and Data Mining

*INFO 345, Human-Computer Interaction Design

*INFO 440, Advanced Human-Computer Interaction Design

INFO 450, Language and Technology

Up to two courses from another track.

Dance track. In addition to the core course, DANCE 165 (for description, see COM S 165), any five of the following. Note that some of these courses have DANCE pre-and/or co-requisites. Note also that for this track, two courses marked * should be taken, and they should not be I and II of any one series for the purposes of satisfying the * requirement.

†DANCE 210/VISST 211 Beginning Dance Composition

†DANCE 235/VISST 235 Hip-Hop, Hollywood, and Home Movies

†*DANCE 258/VISST 258 Techno Soma Kinesics I

†DANCE 310 Intermediate Dance Composition I

†DANCE 311 Intermediate Dance Composition II

†*DANCE 358/VISST 358 Techno Soma Kinesics II

†DANCE 362/THETR 362/VISST 362 Lighting Design Studio I

*DANCE 368/MUSIC 355/THETR 368 Sound Design and Digital Audio

*DANCE 369/MUSIC 356/THETR 369 Digital Performance

†DANCE 391/MUSIC 391 Media Arts Studio

†DANCE 410 Advanced Dance Composition I

†DANCE 411 Advanced Dance Composition II

†DANCE 462/THETR 462/VISST 462 Lighting Design Studio II

†*MUSIC 320 Scoring the Moving Image

†PSYCH 305/VISST 305 Visual Perception

*THETR 365 Automated Lighting and Control Systems

Up to two courses from another track

Film track. In addition to the core course, CIS 165, any five of the following. Note that some of these courses have FILM pre-and/or co-requisites.

†ART 170 Visual Imaging in the Electronic Age

†ART 272 Digital Video and Sound

†FILM 377 Introduction to 16mm and Digital Filmmaking

FILM 325 Animation: History and Practice

†FILM 391 Media Arts Studio

*THETR 368 Sound Design and Digital Audio

†*THETR 369 Digital Performance

*ART 273/COM S 565 Computer Animation

*COM S 566 Advanced Computer Animation

†FILM 422 Cinematography

†FILM 477 Intermediate Film and Video Projects: Documentary and Experimental Workshop

†FILM 493 Advanced Film and Video Projects

Up to two courses from another track

Music track. In addition to the core course, MUSIC 165, any five of the following. Note that some of these courses have MUSIC prerequisites.

*†CIS 300 Introduction to Computer Game Design

†*MUSIC 120 Introduction to Digital Music

†*MUSIC 220 Computers in Music Performance

†*MUSIC 320 Scoring the Moving Image

*MUSIC 355/THETR 368 Sound Design and Digital Audio

*†MUSIC 356/THETR 369 Digital Performance

†MUSIC 361/362/363 Jazz Improvisation (any two of these 2-credit courses)

†MUSIC 451 Counterpoint

†MUSIC 453 Composition in Recent Styles

†MUSIC 454 Composition

†MUSIC 457 20th-Century Musical Languages

PHYS/MUSIC 204 Physics of Musical Sound

Up to two courses from another track.

Psychology track. In addition to the core course, PSYCH 165, any five of the following. Note that some of these courses have PSYCH prerequisites.

†ART 170, Visual Imaging in the Electronic Age (also CIS/COM S/ENGRI 167)

*COM S 465 Computer Graphics I

*COM S 467 Computer Graphics II + 468, Computer Graphics Practicum (together these count as one course)

*INFO 214/PSYCH 214 Cognitive Psychology

†*MUSIC 120 Introduction to Digital Music

PSYCH 205 Perception

†PSYCH 305 Visual Perception

PSYCH 316 Auditory Perception

*PSYCH 342 Human Perception: Applications to Computer Graphics, Art, and Visual Display

†PSYCH 418/MUSIC 418 Psychology of Music

Up to two courses from another track.

CZECH

See "Department of Russian."

DANCE

See "Department of Theatre, Film, and Dance."

DUTCH

See "Department of German Studies."

EARTH AND ATMOSPHERIC SCIENCES

T. E. Jordan, chair; S. J. Colucci, co-chair (CALS); director of undergraduate studies, B. L. Isacks; R. W. Allmendinger, W. D. Allmon, C. Andronicos, M. Barazangi, L. D. Brown, L. M. Cathles, J. L. Cisne, K. H. Cook, A. T. DeGaetano, L. A. Derry, P. J. Gierasch, M. Goman, C. H. Greene, D. L. Hysell, R. W. Kay, S. Mahlborg Kay, M. C. Kelley, B. Monger, A. Moore, A. J. Pershing, J. Phipps Morgan, M. Pritchard, S. J. Riha, W. M. White, D. S. Wilks, M. W. Wysocki

The Department of Earth and Atmospheric Sciences covers the breadth of modern earth

sciences. We live on a planet with finite resources and a finite capacity to recover quickly from human-induced environmental stresses. It is a naturally powerful planet, with geologic hazards such as earthquakes and volcanic eruptions that alter the course of history with little prior warning. As the human population grows, understanding the earth and its resources becomes progressively more important to both future policymakers and ordinary citizens, who must find new energy sources and sustain the quality of our environment.

During the past several decades, with the increasing concern about air and water pollution, nuclear waste disposal, the destruction of the ozone layer, and global climate change, the scientific community has gained considerable insight into how the biosphere, hydrosphere, atmosphere, and lithosphere systems interact. It has become evident that we cannot understand and solve environmental problems by studying these individual systems in isolation. The interconnectedness of these systems is a fundamental attribute of the Earth system, and understanding their various interactions is crucial for understanding our environment.

The department has been the home of two majors in the College of Arts and Sciences: geological sciences and science of earth systems (SES). The geological sciences major emphasized the solid earth and its history, while the science of earth systems major emphasized study of the interactions among rock, water, air, and life in our planet's operation. The SES major grew out of recognition of the fundamental interconnectedness of the components of the earth system, and the importance of understanding both the system's operation at present and in the geological past. The SES major reflects the new strategy of modern earth science. Thus, starting in Fall 2006, the geological sciences major will become a concentration within the SES major. The geology concentration within SES provides an equivalent to the geological sciences major, but with an increased breadth. Other concentrations include atmospheric sciences, ocean sciences, and biogeochemistry. The SES major will be the only major offered by the department for students graduating in 2009 or later.

The SES major prepares students for a number of career paths in basic or applied sciences of our planet. The major can lead to graduate study and research in geology, geophysics, geochemistry, biogeochemistry, atmospheric sciences, ocean sciences, hydrology, or environmental science and engineering. Career opportunities with university research groups, governmental agencies or the private sector deal with energy, mineral and water resources; natural hazards; weather and climate forecasting; ocean resources; and a host of environmental issues. The major can also prepare students for careers in environmental management and policy, law or medicine, science journalism, and K-12 science teaching.

Requirements for the Science of Earth Systems major

1. The science of earth systems curriculum includes strong preparation in mathematics, physics, chemistry and biology, including the following:

MATH 111-112 (or MATH 191-192);

Two semesters of chemistry: CHEM 207-208 or CHEM 211-257;

PHYS 207–208 or 112–213;

BIO G 109–110, 101/103–102/104 or 105–106 (a second semester of biology can be replaced by CHEM 257 if CHEM 207–208 is selected; or replaced by a third semester of mathematics).

- The required introductory course in earth science, EAS 220, The Earth System.

- The core courses emphasize the interconnectedness of the earth system, and are founded on the most modern views of the planet as an interactive and ever-changing system. Each crosses the traditional boundaries of disciplinary science. Three courses selected from the following four core courses are required for the major.

EAS 301 Evolution of the Earth System

EAS 303 Biogeochemistry

EAS 304 Interior of the Earth

EAS 305 Climate Dynamics

- The concentration is achieved by four intermediate to advanced-level courses (300 level and up) that build on the core courses and have prerequisites in the required basic sciences and mathematics courses. Note that additional basic math and science course may be required to complete the concentration courses, depending upon the student's choice of concentration. The concentration courses build depth and provide the student with a specific expertise in some facet of Earth system science. Four concentrations are defined for the major: geological sciences, biogeochemistry, atmospheric sciences, and ocean sciences. Other concentrations can be tailored to a student's interests in concert with the student's advisor and approval of the curriculum committee. The concentration should be chosen during the junior year or before in consultation with the student's advisor and the approval of the Director of Undergraduate Studies.
- Exposure to the basic observations of earth science, whether directly in the field, or indirectly by various techniques of remote sensing, or in the laboratory, is necessary to understand fully the chosen area of concentration in the major. Means of satisfying this requirement generally include 3 credits of course work. Possibilities for fulfilling the field/observation requirement include the following:

courses in the Hawaii Environmental Semester program;

courses given by the Shoals Marine Laboratory;

EAS 250 Meteorological Observations and Instruments;

EAS 352 Synoptic Meteorology I;

EAS 417 Field Mapping in Argentina;

EAS 491 and/or 492 Undergraduate Research, with appropriate choice of project;

Field courses taught by another college or university (3-credit minimum).

Sciences, bli1@cornell.edu, and visit the web site: www.eas.cornell.edu.

Honors. An honors program is offered by the Department of Earth and Atmospheric Sciences for superior students. Candidates for honors must maintain an overall 3.0 GPA, a cumulative average of 3.5 in the major, and complete and honors thesis (EAS 491 or 492). Students interested in applying should contact the director of undergraduate studies during the second semester of the junior year.

Courses

EAS 101(1101) Introductory Geological Sciences (To Know Earth) (PBS)

Fall. 3 credits. Staff.

Designed to enhance an appreciation of the physical world. Emphasizes natural environments, surface temperatures, and dynamic processes such as mountain belts, volcanoes, earthquakes, glaciers, and river systems. Interactions of the atmosphere, hydrosphere, biosphere, and lithosphere (earth system science). Water, mineral, and fuel resources; environmental concerns. Field trips in the Ithaca region.

EAS 102(1102) Evolution of the Earth and Life (also BIO G 170[1700]) (PBS)

Spring. 3 credits. J. L. Cisne.

Earth systems and their evolution: Earth history's astronomical context; plate tectonics, continental drift, and their implications for climate and life; co-evolution of life and the atmosphere; precedents for ongoing global change; dinosaurs, mass extinctions, and human ancestry. Includes laboratories on reconstructing geological history and mapping ancient geography. Fossil collecting on field trips.

EAS 108(1108) Earth in the News (PBS)

Summer. 3 credits. S. L. Losh.

Provides an introduction to physical geology and earth systems science and explores the scientific basis for informed decision making regarding many timely environmental issues, including global warming; water pollution and use; geologic hazards such as floods, earthquakes, and volcanoes; fossil fuel distribution and use; and land use. A field trip is taken in the Ithaca area.

EAS 109(1109) Dinosaurs

Fall. 1 credit. J. L. Cisne.

An introductory survey course for anyone interested in dinosaurs. Lectures examine the fossil evidence and illustrate how various geological and biological disciplines contribute to understanding dinosaurs and their world.

EAS 121(1121) Introduction to MATLAB (also CIS 121[1121])

Fall, spring, 8-week course. 2 credits.

Prerequisites: MATH 111, 191, or equivalent. D. Fan.

For description, see CIS 121.

EAS 122(1220) Earthquake! (also ENGRI 122[1120]) (PBS)

Spring. 3 credits. Staff.

Explores the science of natural hazards and strategic resources. Techniques for locating and characterizing earthquakes and assessing the damage they cause; methods of using sound waves to image the earth's interior to search for strategic minerals; the historical importance of such resources. Seismic experiments on campus to probe for

groundwater, the new critical environmental resource.

EAS 131(1310) Basic Principles of Meteorology (PBS)

Fall. 3 credits. M. W. Wysocki.

Simplified treatment of the structure of the atmosphere: heat balance of the Earth; general and secondary circulations; air masses, fronts, and cyclones; and hurricanes, thunderstorms, tornadoes, and atmospheric condensation. In the laboratory, emphasis is on techniques of analysis of weather systems. The optional 1-credit laboratory for this course is offered as EAS 133.

EAS 133(1330) Basic Meteorology Lab

Fall. 1 credit. Requirement for atmospheric science majors; optional for other students taking EAS 131. Corequisite: EAS 131.

M. W. Wysocki.

Laboratory course covering topics presented in EAS 131. This course is required for atmospheric science majors, but is optional for other students taking EAS 131.

EAS 150(1500) Fortran Applications in Earth Science (also CIS 112[1122])

Spring, seven-week course. 2 credits.

Prerequisite: CIS/EAS 121 or equivalent.

Letter grades only. A. J. Pershing.

Emphasizes the application of scientific computing in the Earth sciences, including data processing and modeling of the Earth, its atmosphere, and oceans. Extends the procedural programming concepts developed in CIS/EAS 121 and considers their implementation in high-performance, compiled languages. Topics include the structure and syntax of a FORTRAN program, data input/output, compilation, and debugging.

EAS 154(1540) Introductory Oceanography, Lecture (also BIOEE 154[1540]) (PBS)

Fall, summer. 3 credits. Fall: B. C. Monger and C. H. Greene; summer: B. C. Monger.

Intended for both science and nonscience majors. Covers the basic workings of the ocean including its physics, chemistry, and biology. Following this basic description, the course examines threats to the health of the ocean and the important role the ocean plays in global climate change. Non-science majors should pay particular attention to this course to fulfill a science requirement, because they learn broadly how the earth works (physically, chemically and biologically) in just a single class.

EAS 155(1550) Introductory Oceanography, Laboratory (also BIOEE 155[1550])

Fall. 1 credit. Corequisite: EAS 154.

B. C. Monger and C. H. Greene.

Laboratory course covering topics presented in EAS/BIOEE 154.

EAS 201(2010) Introduction to the Physics and Chemistry of the Earth (also ENGRD 201[2010]) (PBS)

Fall. 3 credits. Prerequisites: PHYS 112 or 207. J. Phipps Morgan.

Topics include formation of the solar system; accretion and evolution of the earth; the rock cycle: radioactive isotopes and the geological time scale, plate tectonics, rock and minerals, earth dynamics, mantle plumes; the hydrologic cycle: runoff, floods and sedimentation, groundwater flow, and contaminant transport; and the weathering cycle: chemical cycles, CO₂ (weathering), rock cycle, controls on

global temperature (CO₂ or ocean currents), oil, and mineral resources.

EAS 213(2130) Marine and Coastal Geology (PBS)

Summer. 4 credits. Prerequisite: introductory geology or ecology or permission of instructor. Staff.

A special two-week course offered at Cornell's Shoals Marine Laboratory (SML), located on an island near Portsmouth, N.H. For more details and an application, contact SML office, G14 Stimson Hall. Estimated cost for 2005 (including tuition, room, board, and ferry transportation): \$2,120.

EAS 220(2200) The Earth System (PBS)

Spring. 4 credits. Letter grades only. Staff. Integrated introduction to the earth system stressing the biological, chemical, geological, and physical interactions among the atmosphere, ocean, and solid earth. Topics include biogeochemical cycles, climate dynamics, and the evolution of the atmosphere, biosphere, cryosphere (ice), hydrosphere (oceans and inland waters), and lithosphere (solid earth).

EAS 222(2220) Seminar—Hawaii's Environment

Fall. 1 credit. S-U grades only. A. Moore and C. H. Greene.

For students interested in the unique environmental systems of the Hawaiian Islands. Designed to bring together students returning from field studies in Hawaii with students interested in going there to study. Through reading and discussion students explore the geology, biology, ocean, atmosphere, and culture of the Hawaiian environment.

EAS 240(2400) Field Study of the Earth System (PBS)

Spring. 5 credits. Prerequisites: enrollment in Earth and Environmental Sciences Semester in Hawaii; one semester of calculus (MATH 191/192/193 or 111/112), and two semesters of any of the following: PHYS 207/208 or 112/213; CHEM 207/208; BIO 101/103-102/104 or 105/106 or 109/110; or equivalent course work. A. Moore.

Interdisciplinary field course covering fundamental concepts of the Earth system. Topics include global circulation patterns in the solid Earth, atmosphere, and ocean; energy and mass transfer; change and variability of Earth, atmosphere, and ocean systems; and the temporal record of change preserved in the geologic record; and Earth, oceanic, and atmospheric controls on ecosystem processes. The course is project-based with students engaged in hands-on, active learning that takes advantage of local resources.

EAS 250(2500) Meteorological Observations and Instruments

Fall. 4 credits. Prerequisite: EAS 131. M. W. Wysocki and B. Monger.

Methods and principles of meteorological measurements and observations including surface, free-air, and remote systems. Topics include instrument siting, mounting, and protection; instrument response characteristics, calibration, and standardization; and recorders and data logging systems. Includes laboratory exercises in observation and data analysis. Intended to serve as preparation for Observers Examination.

EAS 268(2680) Climate and Global Warming (PBS)

Spring. 3 credits. Prerequisite: basic college math. S-U grades optional. A. T. DeGaetano.

Students from a range of disciplines become familiarized with such contemporary issues in climatology as global warming and El Niño. Introductions to the natural greenhouse effect, past climates, observed and projected climate changes and impacts. Also natural climate variations and their consequences and predictability. Weekly student-led discussions of issues appearing in journals such as *Nature*.

EAS 296(2960) Forecast Competition

Fall and spring. 1 credit; may be repeated for credit. Students enroll for two consecutive semesters; credit awarded after second semester. Prerequisite: sophomore standing in atmospheric science or permission of instructor. S-U grades only. D. S. Wilks.

Two-semester course providing daily exercise in probabilistic weather forecasting, in which students compete to forecast local weather most skillfully.

EAS 301(3010) Evolution of the Earth System (PBS)

Fall. 4 credits. Prerequisites: MATH 112 or 192 and CHEM 207 or equivalent. Four Saturday field trips. T. E. Jordan, S. Riha, and W. D. Allmon.

Covers the co-evolution of life and the earth system: Earth's early history; plate tectonics, continental drift, and climate changes during the past billion years; mountain building, ice ages, and our own emergence during the past 10 million years. Serves as an introduction to methods of interpreting information preserved in the rock record.

EAS 303(3030) Introduction to Biogeochemistry (also NTRES 321[3210]) (PBS)

Fall. 4 credits. Prerequisites: CHEM 207, MATH 112, plus a course in biology and/or geology. L. A. Derry.

Control and function of the Earth's global biogeochemical cycles. Begins with a review of the basic inorganic and organic chemistry of biologically significant elements, and then considers the biogeochemical cycling of carbon, nutrients, and metals that take place in soil, sediments, rivers, and the oceans. Topics include weathering, acid-base chemistry, biological redox processes, nutrient cycling, trace gas fluxes, bio-active metals, the use of isotopic tracers, controls on atmospheric carbon dioxide, and mathematical models. Interactions between global biogeochemical cycles and other components of the Earth system are discussed.

EAS 304(3040) Interior of the Earth (PBS)

Spring. 3 credits. C. Andronikos.

This class will investigate the geology of the solid earth with emphasis on igneous and metamorphic petrology, structure of the continents and ocean basins, and large scale tectonics. Interaction between deformation, melt generation and metamorphism will be examined as mechanisms by which the crust is differentiated from the underlying mantle. Geophysical and geochemical techniques for probing the deep interior of the earth will be investigated. Plate tectonics will be used as a unifying theme to understand processes operating in the solid earth.

EAS 305(3050) Climate Dynamics (also ASTRO 331[3331]) (PBS)

Fall. 3 credits. Prerequisites: two semesters of calculus and one of physics. K. H. Cook. Processes that determine climate and contribute to its change are discussed, including atmospheric radiation, ocean circulation, and atmospheric dynamics. Contemporary climate change issues are investigated and discussed in the context of natural variability of the system.

EAS 315(3150) Geomorphology (PBS)

Fall. 3 credits. Prerequisite: 3-credit EAS course. B. L. Isacks.

A study of the processes that sculpt the Earth's terrestrial landscapes. Landforms constructed by Earth's internal processes are the point of departure as students examine their modification by physical interaction with the atmosphere. Laboratory exercises include both field examination of landforms of the Finger Lakes area and computer analysis of satellite images and digital elevation models of examples from around the globe. Includes two Saturday field trips.

EAS 322(3220) Biogeochemistry of the Hawaiian Islands (PBS)

Spring. 4 credits. Prerequisites: enrollment in Earth and Environmental Sciences Semester in Hawaii; EAS 220, EAS 303, or permission of instructor. L. Derry.

Field-oriented study of biogeochemical processes and ecosystem interactions across the Hawaiian islands. Field, class, and laboratory work focus on how landscape age and climate strongly control biogeochemical cycling and ecosystem development in Hawaii. Other topics include succession of ecosystems, evolution of nutrient cycles, and impacts of invasive species. The class is structured around field projects, carried out both in groups and individually.

[EAS 326(3260) Structural Geology (PBS)]

Spring. 4 credits. Prerequisite: one semester of calculus, plus introductory geology course or permission of instructor. One weekend field trip. Alternate years; next offered 2007-2008. R. W. Allmendinger.]

[EAS 334(3340) Microclimatology (PBS)]

Spring. 3 credits. Prerequisite: physics course. Offered alternate years; next offered 2007-2008. D. S. Wilks.]

EAS 341(3410) Atmospheric Thermodynamics and Hydrostatics (PBS)

Fall. 3 credits. Prerequisites: one year of calculus and one semester of physics. A. T. DeGaetano.

Introduction to the thermodynamics and hydrostatics of the atmosphere and to the methods of description and quantitative analysis used in meteorology. Topics include thermodynamic processes of dry air, water vapor, and moist air and concepts of hydrostatics and stability.

EAS 342(3420) Atmospheric Dynamics (also ASTRO 342[3420]) (PBS)

Spring. 3 credits. Prerequisites: MATH 192, 213, or equivalent; one year of physics. K. H. Cook.

Introduction to the basic equations and techniques used to understand motion in the atmosphere, with an emphasis on the space and time scales typical of storm systems (the synoptic scale). The governing equations of atmospheric flow are derived from first principles and applied to middle latitude and tropical meteorology. Topics include balanced

flow, atmospheric waves, circulation, and vorticity. Text used is *An Introduction to Dynamic Meteorology* by Holton.

EAS 350(3500) Dynamics of Marine Ecosystems (also BIOEE 350[3500]) (PBS)

Fall. 3 credits. Prerequisites: one year of calculus and a semester of oceanography (i.e., EAS 154), or permission of instructor. Offered alternate years; next offered 2007–2008. C. H. Greene and R. W. Howarth.]

EAS 351(3510) Marine Ecosystems Field Course (also BIOEE 351[3510]) (PBS)

Spring. 4 credits. Prerequisites: EAS 240; enrollment in Earth and Environmental Sciences Semester in Hawaii.

Recommended: oceanography course.

C. H. Greene, B. Monger, and C. D. Harvell.

Covers the interactions of physical and biological processes in marine ecosystems. Starts by looking at these processes on ocean-basin to regional scales and works down to the smaller scales relevant to individual organisms. Students are introduced to modern techniques of marine-ecosystems research, including remote sensing, oceanographic-survey methods, and experimental marine ecology. This course is field and laboratory intensive with students engaged in hands-on, active learning that takes advantage of local resources.

EAS 352(3520) Synoptic Meteorology (PBS)

Spring. 3 credits. Prerequisite: EAS 341.

Corequisite: EAS 342. M. W. Wysocki.

Weather map analysis and forecasting techniques are studied by applying the principles of fluid and heat flow. This course strengthens previously introduced meteorological concepts which are applied to forecasting midlatitude synoptic scale weather systems, such as cyclones, anticyclones, jet streams, fronts, and waves.

EAS 353(3530) Physical Oceanography (PBS)

Fall. 3 credits. Prerequisites: MATH 112 or 192, or one year of physics, or permission of instructor. B. C. Monger.

The course covers thermohaline and wind-driven circulation and surface-ocean boundary-layer dynamics. Mathematical expressions for describing conservation of momentum, mass, and heat in a fluid are used to explain the ocean's responses to wind and buoyancy forcing, but the course will emphasize the basic physical principles at play, and not just the mathematical results. Student presentations of recent research papers will elaborate principles learned in the course.

EAS 355(3550) Mineralogy (PBS)

Fall. 4 credits. Prerequisites: EAS 101, 201, or 220 and CHEM 207 or 211 or permission of instructor. S. Mahlburg Kay.

Covers chemical and physical properties and identification of minerals with emphasis on the rock-forming minerals that are the principal constituents of the Earth and nearby planets. Topics include internal and external crystallography, crystal chemistry, introductions to x-ray crystallography and optical mineralogy, and a systematic examination of the structures, chemistry, and occurrence of the rock-forming minerals. Independent project includes use of electron microprobe (EPMA) and x-ray facilities.

EAS 356(3560) Petrology and Geochemistry (PBS)

Spring. 4 credits. Prerequisite: EAS 355.

R. W. Kay.

Principles of phase equilibrium as applied to igneous and metamorphic systems. Description, classification, chemistry, origin, regional distribution, and dating of igneous and metamorphic rocks. Geochemical distribution of trace elements and isotopes in igneous and metamorphic systems. The petrological evolution of the planets.

EAS 388(3880) Geophysics and Geotectonics (PBS)

Spring. 3 credits. Prerequisites: MATH 192 (or 112) and PHYS 208 or 213. Offered alternate years; next offered 2007–2008.

M. Pritchard.]

EAS 401(4010) Fundamentals of Energy and Mineral Resources (PBS)

Spring. 3 credits. Next offered 2007–2008.

L. Cathles.]

EAS 404(4040) Geodynamics

Spring. 3 credits. Prerequisite: calculus and calculus-based physics or permission of instructor. J. Phipps Morgan.

Quantitative study of the deformation, heat transport, and melting processes that have shaped the evolution of the solid Earth. Familiar physical and chemical principles and concepts are applied to the study of plate tectonics, fluid dynamics, mantle convection, melting, and mountain building.

EAS 405(4050) Active Tectonics (PBS)

Spring. 3 credits. Recommended: mechanical background equivalent to EAS 326/388. S-U grades optional. Offered alternate years. M. Pritchard.

The class develops the ideas and methods necessary to understand how the Earth deforms—from individual earthquakes to the construction of mountain ranges. We discuss the driving forces of deformation, and how these forces interact with different geologic materials to cause deformation.

EAS 417(4170) Field Mapping in Argentina (PBS)

Summer. 3 credits. Prerequisite: introductory EAS course and EAS 326.

S. Mahlburg Kay.

Field mapping course in Argentina that fulfills field requirement for majors with interests in Geological Sciences and provides a field geological experience for others. Course consists of lectures in Buenos Aires followed by field exercises in the Sierras Pampeanas, Precordillera, and Main Cordillera Ranges of the Argentine Andes in the provinces of San Juan and Mendoza. A variety of exercises use modern techniques in the field mapping of a broad range of variably deformed sedimentary, metamorphic and igneous rocks. The course further provides an introduction to the tectonics and magmatic processes of the central Andes with emphasis on comparable processes in the U.S. Exercises are done in combination with students and faculty of the University of Buenos Aires.

EAS 420(4200) The Linux Supercomputing Environment

Fall, spring. 3 credits. Prerequisite: EAS 150 or introductory programming. M. Wysocki and V. Manakkal.

This course will address the use of computers and software for research. An understanding of basic operating concepts and computer hardware will tie into a survey of available

software packages for programming and data presentation as well as computational techniques such as parallel processing. Students will be required to formulate and conduct a project using tools of their choice and demonstrate in a report and oral presentation that is open to other students and faculty that they have used the Linux supercomputing cluster and acquired significant skills. Undergraduates may work in a team.]

EAS 425(4250) European Discovery of Impacts and Explosive Volcanism

Spring. 2 credits. Prerequisite: junior, senior, or graduate students with background in geology and permission of instructor. Letter grades only. Meets one day per week plus field trip during spring break. Fee probably charged for required weeklong field trip. Offered alternate years; next offered 2007–2008. J. Phipps Morgan.]

EAS 434(4340) Reflection Seismology (PBS)

Fall. 3 credits. Prerequisites: MATH 192 and PHYS 208, 213, or equivalent. Offered alternate years; next offered 2007–2008. L. D. Brown.

Fundamentals of subsurface imaging by multichannel seismic reflection techniques as used in oil exploration and geohydrological investigations. Covers survey design, acquisition, analysis, processing, and interpretation in both 2-D and 3-D. Includes discussion of related techniques such as seismic refraction analysis, tomographic inversion, vertical seismic profiling, shear wave exploration, and ground-penetrating radar. Lab is keyed to state-of-the-art seismic processing, modeling, and interpretation software from LandMark.]

EAS 435(4350) Statistical Methods in Meteorology and Climatology (MQR)

Fall. 3 credits. Prerequisites: introductory statistics course (e.g., AEM 210) and calculus. D. S. Wilks.

Covers statistical methods used in climatology, operational weather forecasting, and selected meteorological research applications; some statistical characteristics of meteorological data, including probability distributions and correlation structures; operational forecasts derived from multiple regression models, including the MOS system; and forecast evaluation techniques.

EAS 437(4370) Geophysical Field Methods (also ARKEO 437[4370]) (PBS)

Fall. 3 credits. Prerequisite: PHYS 213 or 208, or permission of instructor. Offered alternate years; next offered 2007–2008. L. D. Brown.]

EAS 447(4470) Physical Meteorology (PBS)

Fall. 3 credits. Prerequisites: one year each of calculus and physics. Offered alternate years; next offered 2007–2008. A. T. DeGaetano.]

EAS 451(4510) Synoptic Meteorology II (PBS)

Fall. 3 credits. Prerequisites: EAS 341 and 342. S. J. Colucci.

Structure and dynamics of large-scale, mid-latitude weather systems, such as cyclones, anticyclones, and waves, with consideration of processes that contribute to temperature changes and precipitation. Laboratory sessions involve real-time weather forecasting and the computer application of a numerical model of

the atmosphere to study selected large-scale, mid-latitude weather events.

EAS 453(4530) Advanced Petrology (PBS)

Fall. 3 credits. Prerequisite: EAS 356. Offered alternate years; next offered 2007-2008 R. W. Kay.]

EAS 454(4540) Advanced Mineralogy (PBS)

Spring. 3 credits. Prerequisite: EAS 355 or permission of instructor. Offered alternate years. S. Mahlburg Kay.

Covers crystallography and crystal chemistry of minerals and the methods of their study. Includes X-ray diffraction, optical methods, and computer simulation of crystal structures. Emphasizes effects of high pressures and temperatures with implications for understanding the Earth's interior.

EAS 455(4550) Geochemistry (PBS)

Fall. 4 credits. Prerequisites: CHEM 207 and MATH 192 or equivalent. Recommended: EAS 356. Offered alternate years; next offered 2007-2008. W. M. White.]

EAS 456(4560) Mesoscale Meteorology (PBS)

Spring. 3 credits. Prerequisites: EAS 341 and 342 or permission of instructor. Next offered 2007-2008. S. J. Colucci.]

EAS 457(4570) Atmospheric Air Pollution (PBS)

Fall. 3 credits. Prerequisites: EAS 341 or thermodynamics course, and one semester of chemistry, or permission of instructor. M. W. Wysocki.

Examines sources, effects, transports, measurement, and controls of air pollution. Discusses the basic principles in each area with an emphasis on their local, regional, and global impacts.

EAS 458(4580) Volcanology (PBS)

Fall. 3 credits. Prerequisite: EAS 356 or equivalent. Offered alternate years. R. W. Kay and W. White.

Causes of volcanism, melting in the Earth, and the origin of magmas. Physical volcanology, nature and types of volcanic eruptions and associated deposits, and eruption mechanisms. Volcanic plumbing systems, magma chamber processes, evolution of magma. Volcanism and impact phenomena in the solar system. Volcanic hazard assessment and volcano monitoring. Ore deposits associated with volcanism.

EAS 460(4600) Late Quaternary Paleocology (PBS)

Fall. 4 credits. M. Goman.

Explores topics in Late Quaternary paleocology. Broadly divided into two sections: (1) lectures that cover a variety of topics, such as philosophy of paleocology, radiometric dating methods, and paleoenvironmental proxies; (2) field and laboratory based research. The field research provides students with hands-on experience in sediment core collection while in the laboratory students learn the basics of core description, pollen, and macrofossil analysis.

EAS 462(4620) Marine Ecology (also BIOEE 462(4620)) (PBS)

Fall. 3 credits. Limited to 75 students. Prerequisite: BIOEE 261. C. D. Harvell and C. H. Greene.

For description, see BIOEE 462.

EAS 470(4700) Weather Forecasting and Analysis (PBS)

Spring. 3 credits. Prerequisites: EAS 352 and 451. TBA. M. W. Wysocki.

Applied course with an opportunity to focus on weather forecasting and analysis techniques for various regions around the world. Lectures emphasize the application of student's knowledge of atmospheric dynamics, thermodynamics, and computer-data analysis to forecast the development and movement of multiscale weather systems. Students participate in weekly forecast discussions, write daily forecasts that include a synoptic discussion, quantitative precipitation forecasts, and severe-weather outlook for the forecast region, and lead class discussion on assigned readings.

EAS 471(4710) Ground Water Hydrology (also BEE 471(4710)) (PBS)

Spring. 3 credits. Prerequisite: MATH 294 and ENGRD 202. Next offered 2007-2008. L. Cathles.]

EAS 475(4750) Special Topics in Oceanography

Fall, spring, summer. 2-6 credits, variable. Prerequisites: one semester of oceanography and permission of instructor. Fall, spring: C. H. Greene; summer: B. C. Monger.

Undergraduate instruction and participation in advanced areas of oceanographic research. Topics change from semester to semester. Contact instructor for further information.

EAS 476(4760) Sedimentary Basins: Tectonics and Mechanics (PBS)

Fall. 3 credits. Prerequisite: EAS 301 or permission of instructor. Offered alternate years; next offered 2007-2008. T. E. Jordan.]

EAS 478(4780) Advanced Stratigraphy (PBS)

Fall. 3 credits. Prerequisite: EAS 375 or permission of instructor. Offered alternate years. T. E. Jordan.

Covers modern improvements on traditional methods of study of ages and of genetic relations among sedimentary rocks, emphasizing 3-D relationships. Introduces techniques and applications of sequence stratigraphy at scales ranging from beds to entire basins. Considers physical correlation, dating techniques, and time resolution in sedimentary rocks as well as physical controls on the stratigraphic record and numerical modeling.

EAS 479(4790) Paleobiology (also BIOEE 479(4790)) (PBS)

Fall. 4 credits. Prerequisites: one year of introductory biology and either BIOEE 274, 373, EAS 375, or permission of instructor. Offered alternate years. W. Allmon.

Surveys the major groups of organisms and their evolutionary histories. Intended to fill out the biological backgrounds of Earth and atmospheric science students concerning the nature and significance of the fossil record for their respective studies.

EAS 481(4810) Senior Survey of Earth Systems

Fall, spring. 2 credits each semester. Fall, J. Cisne; spring, R. Kay.

Weekly seminar for seniors in the Science of Earth Systems major on current topics in Earth System Science. Readings, presentations and discussions will focus results from the recent literature, including how to analyze a scientific paper, and exploration of connections across

the sub-disciplines in the field. The course will serve as both a review of key concepts, and a vehicle to explore developing concepts in the field.

EAS 483(4830) Environmental Biophysics (also CSS 483(4830)) (PBS)

Spring. 3 credits. Offered alternate years; next offered 2007-2008. S. J. Riha.]

EAS 484(4840) Inverse Methods in the Natural Sciences (PBS)

Spring. 3 credits. Prerequisite: MATH 294. D. Hysell.

An exploration of solution methods for inverse problems with examples taken from geophysics and related fields, with particular attention to making inferences from inaccurate, incomplete, or inconsistent physical data. Applications include medical and seismic tomography, earthquake location, image processing, and radio/radar imaging. Linear algebra (including condition numbers) and probability and statistics (including error analysis, Bayes theorem, Gibbs distribution, and Markov chains) will be reviewed. Methods to be covered include nonlinear least-squares, maximum likelihood methods, and local and global optimization methods, including simulated annealing and genetic algorithms.

EAS 487(4870) Introduction to Radar Remote Sensing (also ECE 487(4870)) (PBS)

Fall. 3 credits. Prerequisite: PHYS 208 or 213 or equivalent. D. L. Hysell.

Covers the fundamentals of radar, antennas, and remote sensing. Students are exposed to the principles underlying the analysis and design of antennas used for communication and for radar-related applications. They also encounter both a mathematical and a practical description of how radars function, how their performance can be optimized for different applications, and how signals acquired by them can be processed. The objective is to familiarize students with a wide variety of radars rather than turn them into practicing radar engineers. Each topic is developed from basic principles so students with a wide variety of backgrounds are able to take the course. Emphasis is placed on radar applications in geophysics, meteorology and atmospheric sciences, astronomy and space sciences. Radar remote sensing of the Earth from spacecraft receives special attention.

EAS 491-492(4910-4920) Undergraduate Research

Fall, spring. 1-4 credits. Students should fill out form at 2124 Snee Hall. Staff (B. L. Isacks, coordinator).

Introduction to the techniques and philosophy of research in the earth sciences and an opportunity for undergraduates to participate in current staff research projects. Topics chosen in consultation with, and guided by, a staff member. A short written report is required, and outstanding projects are prepared for publication.

EAS 494(4940) Special Topics in Atmospheric Science

Fall, spring. 8 credits max. Undergraduate level. S-U grades optional. Staff.

The department teaches "trial" courses under this number. Offerings vary by semester and are advertised by the department before the beginning of the semester. The same course is not offered more than twice.

EAS 496(4960) Internship Experience

2 credits. Prerequisites: EAS 240; enrollment in Earth and Environmental Sciences Semester in Hawaii. A. Moore.

During the last three and a half weeks of the semester students carry out a service learning project with a local NGO, environmental business, government agency, research lab, or educational facility. Projects are carefully designed with the student, sponsoring agency, and faculty member. A final report is required.

EAS 497(4790) Individual Study in Atmospheric Science

Fall or spring. 1–6 credits. S-U grades optional. Students must register using independent study form. Staff.

Topics are arranged at the beginning of the semester for individual study or for group discussions.

EAS 498(4980) Teaching Experience in Earth and Atmospheric Sciences

Fall, spring. 1–4 credits. S-U grades only. Staff.

The student assists in teaching an EAS course appropriate to his or her previous training. The student meets with a discussion or laboratory section, prepares course materials, grades assignments, and regularly discusses course objectives and teaching techniques with the faculty member in charge of the course.

EAS 499(4990) Undergraduate Research in Atmospheric Science

Fall or spring. Credit TBA. S-U grades only. Students must register using independent study form. Staff.

Independent research on current problems in atmospheric science.

[EAS 500(5000) Design Project in Geohydrology]

Fall, spring; may continue over two or more semesters. 3–12 credits. Alternative to industrial project for M.Eng. students choosing geohydrology option. Next offered 2007–2008. L. M. Cathles.]

[EAS 502(5020) Case Histories in Groundwater Analysis]

Spring. 4 credits. Next offered 2007–2008. L. M. Cathles.]

EAS 575(5750) Planetary Atmospheres (also ASTRO 575[6575])

Fall. 4 credits. Offered alternate years. P. Gierasch.

For description, see ASTRO 575.

EAS 577(5770) Planetary Surface Processes (also ASTRO 577[6577])

Spring. 3 or 4 credits. Offered alternate years. J. Bell.

For description, see ASTRO 577.

EAS 578(5780) Planet Formation and Evolution (also ASTRO 578[6578])

Fall. 4 credits. Offered alternate years. J. L. Margot, M. Pritchard.

For description, see ASTRO 578.

EAS 584(5840) Inverse Methods in the Natural Sciences

Spring. 3 credits. Prerequisite: MATH 294. D. Hysell.

An exploration of solution methods for inverse problems with examples taken from geophysics and related fields, with particular attention to making inferences from inaccurate, incomplete, or inconsistent physical data. Applications include medical and seismic tomography, earthquake location,

image processing, and radio/radar imaging. Linear algebra (including condition numbers) and probability and statistics (including error analysis, Bayes theorem, Gibbs distribution, and Markov chains) will be reviewed. Methods to be covered include nonlinear least-squares, maximum likelihood methods, and local and global optimization methods, including simulated annealing and genetic algorithms. Students taking the course for advanced (500-level) credit will be expected to complete and present a substantial class project to be negotiated with the instructor.

[EAS 620(6200) The Linux Supercomputing Environment]

Fall and spring. 3 credits. Prerequisite: EAS 150 or introductory programming. M. Wysocki and V. Manakkal.

This course will address the use of computers and software for research. An understanding of basic operating concepts and computer hardware will tie into a survey of available software packages for programming and data presentation as well as computational techniques such as parallel processing. Students will be required to formulate and conduct a project using tools of their choice and demonstrate in a report and oral presentation that is open to other students and faculty that they have used the Linux supercomputing cluster and acquired significant skills. Graduate students will be expected to conduct an independent project and solve a computational problem in their domain of expertise.]

[EAS 622(6220) Advanced Structural Geology I]

Fall. 3 credits. Prerequisites: EAS 326 and permission of instructor. Offered alternate years; next offered 2007–2008. R. W. Allmendinger and C. Andronicos.]

[EAS 624(6240) Advanced Structural Geology II]

Spring. 3 credits. Prerequisites: EAS 326 and permission of instructor. Offered alternate years; next offered 2007–2008. R. W. Allmendinger.]

[EAS 628(6280) Geology of Orogenic Belts]

Spring. 3 credits. Prerequisite: permission of instructor. Next offered 2007–2008. Staff.]

EAS 641(6410) Analysis of Biogeochemical Systems

Spring. 3 credits. Prerequisite: MATH 293 or permission of instructor. Offered alternate years. L. A. Derry. Covers dynamics of biogeochemical systems; kinetic treatment of biogeochemical cycles; box models, residence time, response time; analytical and numerical solutions of model systems; Eigen-analysis of linear systems; feedback and nonlinear cases, problems of uncertainties in natural systems; modeling software such as MATLAB; and applications to current research of participants or from recent literature.

[EAS 652(6520) Advanced Atmospheric Dynamics (also ASTRO 652[7652])]

Spring. 3 credits. Prerequisites: EAS 341 and 342 or equivalent. Offered alternate years; next offered 2007–2008. S. J. Colucci.]

[EAS 656(6560) Isotope Geochemistry]

Fall. 3 credits. Open to undergraduates. Prerequisite: EAS 455 or permission of instructor. Offered alternate years. W. M. White.]

Nucleosynthetic processes and the isotopic abundance of the elements; geochronology and cosmochronology using radioactive decay schemes, including U-Pb, Rb-Sr, Sm-Nd, K-Ar, U-series isotopes, and cosmogenic isotopes such as ^{14}C and ^{36}Cl . Use of radiogenic and stable isotopes in petrology and their application to study of the evolution of the crust and mantle. Isotopic evidence regarding the formation of the Earth and the solar system. Stable isotopes and their use in geothermometry, ore petrogenesis, paleontology, and the global climate system.

[EAS 666(6660) Applied Multivariate Statistics]

Spring. 3 credits. Prerequisites: multivariate calculus, matrix algebra, and two statistics courses. Offered alternate years; next offered 2007–2008. D. S. Wilks.]

[EAS 675(6750) Modeling the Soil-Plant-Atmosphere System (also CSS 675[6750])]

Spring. 3 credits. Prerequisite: EAS/CSS 483 or equivalent. Next offered 2008–2009. S. J. Riha.]

EAS 692(6920) Special Topics in Atmospheric Science

Fall or spring. 1–6 credits. S-U grades optional. Staff.

Study of topics in atmospheric science that are more specialized or different from other courses. Special topics covered depend on staff and student interests.

EAS 693(6930) Special Topics in Geological Sciences

Fall or spring. 1–3 credits, variable. S-U grades optional. Staff.

Study of specialized advanced topics in the Earth sciences through readings from the scientific literature, seminars, and discussions.

EAS 700–799(7000–7990) Seminars and Special Work

Fall, spring. 1–3 credits. Prerequisite: permission of instructor. Staff.

Advanced work on original investigations in earth and atmospheric sciences. Topics change from semester to semester. Students should contact appropriate professor for more information.

EAS 701–702(7010–7020) Thesis Research

701, fall; 702, spring. 1–15 credits, variable. Staff.

EAS 711(7110) Upper Atmospheric and Space Physics

Fall or spring. 1–6 credits. Seminar course. TBA. D. L. Hysell.

EAS 722(7220) Advanced Topics in Structural Geology

R. W. Allmendinger.

EAS 731(7310) Advanced Topics in Remote Sensing and Geophysics

M. Pritchard.

EAS 733(7330) Advanced Topics in Geodynamics

Spring. J. Phipps Morgan.

EAS 750(7500) Remote Satellite Sensing in Biological Oceanography

Summer. 3 credits. B. C. Monger.

The intensive summer course meets from 9 a.m. to 5:00 p.m. for a two-week period. The goal of the course is to teach participants the skills needed to work independently to acquire data sets derived from a variety of

satellite sensors (SeaWiFS, MODIS, AVHRR, SeaWinds and Topex-Poseidon) and to merge these data sets to examine biological response to changes in the physical environment. Course time is split equally between lectures and computer lab work. Lectures cover the fundamentals of bio-optics, pigment algorithms, primary production algorithms and the underlying physical principals leading to the measurement of sea surface temperature, ocean wind speed and ocean topography. Computer labs focus on developing the IDL (Research Systems, Inc.) programming skills needed to process, analyze and visualize satellite image data. See the course syllabus for more details on the topics covered in this course.

EAS 751(7510) Petrology and Geochemistry

R. W. Kay.

EAS 755(7550) Advanced Topics in Geodynamics

Fall. 3 credits. J. Phipps Morgan.

EAS 757(7570) Current Research in Petrology and Geochemistry

S. Mahlburg Kay.

EAS 762(7620) Advanced Topics in Paleobiology

W. D. Allmon.

EAS 771(7710) Advanced Topics in Sedimentology and Stratigraphy

T. E. Jordan.

EAS 773(7730) Paleobiology

J. L. Cisne.

EAS 775(7750) Advanced Topics in Oceanography

C. H. Greene.

EAS 780(7800) Earthquake Record Reading

Fall. M. Barazangi.

EAS 781(7810) Exploration Geophysics

L. D. Brown.

EAS 783(7830) Advanced Topics in Geophysics

B. L. Isacks.

EAS 793(7930) Andes-Himalayas Seminar

S. Mahlburg Kay, R. W. Allmendinger, B. L. Isacks, and T. E. Jordan.

EAS 795(7950) Low Temperature Geochemistry

1-3 credits. S-U letter grades. L. A. Derry.

EAS 796(7960) Geochemistry of the Solid Earth

W. M. White.

EAS 797(7970) Fluid-Rock Interactions

L. M. Cathles.

EAS 799(7990) Soil, Water, and Geology Seminar

Spring. L. M. Cathles and T. S. Steenhuis.

EAS 850(8500) Master's-Level Thesis Research in Atmospheric Science

Fall or spring. Credit by arrangement. S-U grades only. Hours by arrangement. Graduate faculty.

Limited to students specifically in the master's program in atmospheric science.

EAS 950(9500) Graduate-Level Dissertation Research in Atmospheric Science

Fall or spring. Credit by arrangement. S-U grades optional. Hours by arrangement. Graduate faculty.

Limited to students in the atmospheric science Ph.D. program *only before* "A" exam has been passed.

EAS 951(9510) Doctoral-Level Dissertation Research in Atmospheric Science

Fall or spring. Credit by arrangement. S-U grades optional. Hours by arrangement. Graduate faculty.

Limited to students admitted to candidacy in the atmospheric science Ph.D. program *after* "A" exam has been passed.

EAST ASIA PROGRAM

140 Uris Hall

E. Gunn, director; T. LaMarre, associate director; D. Boucher, J. Chen, Z. Chen, A. Carlson, S. G. Cochran, B. de Bary, H. Diffloth, S. Divo, G. Fields, M. Fiskejo, E. M. Gunn, J. Grimheden, J. Hagen, T. Hahn, H. Hong, N. Howson, Y. Katagiri, P. J. Katzenstein, Y. Kawasaki, J. S. Kil, J. V. Koschmann, F. Kotas, T. LaMarre, N. Larson, J. M. Law, P. Liu, T. P. Lyons, S. Martin, R. McNeal, F. L. Mehta, H. Miyazaki, Y. Nakanishi, V. Nee, A. Pan, L. Paterson, C. A. Peterson, A. Riles, B. Rusk, N. Sakai, P. S. Sangren, K. Selden, M. Shin, Y. Shirai, J. J. Suh, R. J. Sule, K. W. Taylor, Q. Teng, H. Wan, Q. Wang, D. X. Warner, R. Weiner, Emeritus: R. Barker, K. W. Brazell, P. Chi, E. H. Jorden, L. C. Lee, J. McCoy, T. L. Mei, R. J. Smith, M. W. Young

The East Asia Program draws together faculty from departments and fields throughout the university who participate in a program of research and teaching on the civilizations and cultures of East Asia. Courses are offered through departments in the humanities and social sciences, as well as in the fields of business, city and regional planning, international and comparative labor relations, and rural sociology. The Department of Asian Studies offers language courses in Mandarin, Cantonese, Korean, and Japanese, in addition to the Full-year Asian Language Concentration (FALCON) in Japanese and Mandarin. Undergraduates major in the Department of Asian Studies and concentrate on the language and culture of one East Asian country, while graduate students may work toward an M.A. in East Asian Studies, a dual M.B.A./M.A., or an M.A./Ph.D. in a discipline such as agricultural economics, anthropology, city and regional planning, government, history, history of art, linguistics, literature, rural sociology, or sociology. Graduate students concentrating on East Asia may apply for a variety of fellowships and travel grants offered by the East Asia Program. The formal program of study is enriched by numerous events and extracurricular activities, including films, workshops, art exhibits, lectures, symposia, and cultural and artistic performances on East Asia. With nearly 600,000 holdings in Chinese, Japanese, Korean, and western languages, the Wason Collection in Kroch Library is a major national resource for research on East Asia. A 5,000-piece collection representing the full range of Chinese, Japanese, and Korean art may be seen at the George and Mary

Rockwell Galleries in the Herbert F. Johnson Museum of Art.

ECONOMICS

U. Possen, chair; T. Mitra, director of graduate studies; T. Lyons, director of undergraduate studies; T. Bar, L. Barseghyan, K. Basu, L. Blume, R. Burkhauser, S. Coate, D. Easley, R. Ehrenberg, G. Fields, A. Guerdjikova, G. Hay, Y. Hong, R. Kanbur, N. Kiefer, S. Klonner, T. Lyons, M. Majumdar, T. Mitra, F. Molinari, M. Nielsen, T. O'Donoghue, A. Razin, D. Sahn, R. E. Schuler, K. Shell, H. Y. Wan, Jr., J. Wissink, T. Zhu, A. Zussman. Emeritus: T. E. Davis, W. Isard, A. Kahn, P. D. McClelland, G. Staller, E. Thorbecke, J. Vanek

The study of economics provides an understanding of the way economies operate and an insight into public issues. The department offers a broad range of undergraduate courses in such fields as money and banking; international and comparative economics; econometrics; theory; history; growth and development; and the organization, performance, and control of industry.

The Major

Prerequisites

ECON 101 and 102 and MATH 111 (or equivalents) are required, all with grades of C or better; MATH 112 (or equivalent) is recommended. For further information, see "Math for Economics 313-314" at the department's web site: www.arts.cornell.edu/econ/major.html.

ECON 301 with a grade of C or better substitutes for 101; ECON 302 with a grade of C or better substitutes for 102.

Requirements

Eight courses listed by the Department of Economics at the 300 level or above, or approved by the student's major advisor, all with grades of C- or better. (S-U grade option is not allowed.)

These eight courses must include:

1. ECON 313 and 314
2. ECON 321, or ECON 319 and 320 (ECON 313, 314, 321 or 319, 320 should be completed before senior year.)
3. at least three courses from the following: ECON 318, 320, 322-399

ECON 301 with a grade of B or better substitutes for both 101 and 313; ECON 302 with a grade of B or better substitutes for both 102 and 314.

If ECON 321 is applied toward the major, neither 319 nor 320 can be applied.

ECON 498 and 499 *cannot* be counted toward the eight-course requirement.

If ECON 313 is applied to the major, ECON 301 cannot be.

If ECON 314 is applied to the major, ECON 302 cannot be.

If both ECON 367 and ECON 368 are taken, only one can be applied to the major.

Honors Program

An honors program is currently being offered. Students should consult the director of

undergraduate studies before May of their junior year for more information.

Recommended Courses

Students planning graduate work in economics should select ECON 319–320 rather than 321 and should consider including some of the following courses in their majors:

ECON 325 (Cross Section and Panel Econometrics) or ECON 327 (Time Series Econometrics)

ECON 337 (Equilibrium and Welfare Economics)

ECON 405 (Auction Seminar)

ECON 367 (Game Theoretic Methods) or ECON 368 (Game Theory)

ECON 416 (Intertemporal Economics)

ECON 419 (Economic Decisions under Uncertainty)

ECON 446 (Topics in Macroeconomic Analysis)

Students planning careers in business management should consider including some of the following courses in their majors:

ECON 333 (Financial Economics)

ECON 351 or 352 (Industrial Organization)

ECON 358 (Behavioral Economics)

ECON 361–362 (International Trade and Finance)

ECON 440–441 (Analysis of Agricultural Markets and Commodity Futures Markets)

ECON 443 (Compensation, Incentives, and Productivity)

In addition to completing the economics major, such students should also consider courses in accounting and subjects such as finance, marketing, entrepreneurship, business administration, and business law. Courses in these subjects are offered by the Department of Applied Economics and Management, the School of Hotel Administration, and the Johnson Graduate School of Management.

Students planning to attend law school should consider including some of the following courses in their majors:

ECON 351 or 352 (Industrial Organization)

ECON 354 (Economics of Regulation)

ECON 361–362 (International Trade and Finance)

ECON 404 (Economics and the Law)

In addition to completing the economics major, such students should inquire at Career Services, College of Arts and Sciences, concerning recommended courses offered by other departments.

Courses

ECON 101(1110) Introductory Microeconomics (SBA)

Fall, spring, winter, and summer. 3 credits. ECON 101 is *not* a prerequisite for 102.

Explanation and evaluation of how the price system operates in determining what goods are produced, how goods are produced, who receives income, and how the price system is modified and influenced by private organizations and government policy.

ECON 102(1120) Introductory Macroeconomics (SBA)

Fall, spring, winter, and summer. 3 credits.

ECON 101 is *not* a prerequisite for 102.

Analysis of aggregate economic activity in relation to the level, stability, and growth of national income. Topics may include the determination and effects of unemployment, inflation, balance of payments, deficits, and economic development, and how these may be influenced by monetary, fiscal, and other policies.

ECON 204(2040) Networks (also SOC 209(2090)) (SBA)

Spring. 4 credits. Cannot be applied to ECON major.

This interdisciplinary course examines network structures and how they matter in everyday life. The course examines how each of the computing, economic, sociological and natural worlds are connected and how the structure of these connections affects each of these worlds. Tools of graph theory and game theory are taught and then used to analyze networks. Topics covered include the web, the small world phenomenon, markets, neural networks, contagion, search and the evolution of networks.

ECON 230(2300) International Trade and Finance (SBA)

Cannot be applied to ECON major.

For description, see AEM 230.

ECON 301(3010) Microeconomics (SBA)

Fall. 4 credits. Prerequisite: calculus.

Intended for students with strong analytical skills who have not taken ECON 101, 102. May be used to replace both ECON 101 and 313 (may replace 313 only with grade of B or better). Covers the topics taught in ECON 101 and 313. An introduction to the theory of consumer and producer behavior and to the functioning of the price system.

ECON 302(3020) Macroeconomics (SBA)

Spring. 4 credits. May be used to replace both ECON 102 and 314 (may replace 314 only with grade of B or better).

Prerequisite: calculus.

Intended for students with strong analytical skills who have not taken ECON 101, 102. Covers the topics taught in ECON 102 and 314. An introduction to the theory of national income determination, unemployment, growth, and inflation.

ECON 307(3070) Introduction to Peace Science (also CRP 495.18[3850]) (SBA)

Winter session. 3 credits. Prerequisites:

ECON 101–102 or permission of instructor.

Introduction to the theories of and research on conflict resolution. Topics include conflict, its role and impact on society; theories of aggression and altruism; causes of war; game theory; conflict management procedures and other analytical tools and methods of peace science; and alternatives to war.

ECON 313(3130) Intermediate Microeconomic Theory (SBA)

Fall, spring, and summer. 4 credits.

Prerequisites: ECON 101–102 and calculus.

The pricing processes in a private enterprise economy are analyzed under varying competitive conditions, and their role in the allocation of resources and the functional distribution of national income is considered.

ECON 314(3140) Intermediate Macroeconomic Theory (SBA)

Fall, spring, and summer. 4 credits.

Prerequisites: ECON 101–102 and calculus.

Introduces the theory of national income and determination and economic growth in alternative models of the national economy. Examines the interaction and relation of these models to empirical aggregate economic data.

ECON 319(3190) Introduction to Statistics and Probability (MQR)

Fall and spring. 4 credits. Prerequisites:

ECON 101–102 and MATH 111–112.

Provides an introduction to statistical inference and to principles of probability. It includes descriptive statistics, principles of probability, discrete and continuous distributions, and hypothesis testing (of sample means, proportions, variance). Regression analysis and correlation are introduced.

ECON 320(3200) Introduction to Econometrics (MQR)

Fall and spring. 4 credits. Prerequisites:

ECON 101–102, 319, or equivalent.

Introduction to the theory and application of econometric techniques. How econometric models are formulated, estimated, used to test hypotheses, and used to forecast; understanding economists' results in studies using regression model, multiple regression model, and introduction to simultaneous equation models.

ECON 321(3210) Applied Econometrics (MQR)

Fall or spring. 4 credits. Prerequisites:

ECON 101–102 and calculus.

Provides an introduction to statistical methods and principles of probability. Topics include analysis of data, probability concepts and distributions, estimation and hypothesis testing, regression, correlation and time series analysis. Applications from economics are used to illustrate the methods covered in the course.

ECON 322(3220) World Economic History # (HA)

Spring. 4 credits. Prerequisites: ECON 101 and 102 or equivalent.

An economist's perspective on the comparative evolution of selected economic and social institutions, with emphasis on trade, finance, population growth and technological change.

ECON 323(3230) American Economic History # (SBA)

Fall. 4 credits. Prerequisite: ECON 101–102 or equivalent.

Surveys problems in American economic history from the first settlements to early industrialization.

ECON 324(3240) American Economic History # (SBA)

Spring. 4 credits. Prerequisites: ECON 101–102 or equivalent.

Surveys problems in American economic history from the Civil War to World War I.

ECON 325(3250) Cross Section and Panel Econometrics (MQR)

Spring. 4 credits. Prerequisite: ECON 320.

Introduction to cross-section and panel econometrics. Topics include multiple-regression analysis with qualitative information to models, simple and advanced panel data methods, informal variable, estimation, simultaneous equation models.

ECON 327(3270) Time Series Econometrics (MQR)

Spring. 4 credits. Prerequisite: ECON 320. Introduction to time-series econometrics. Topics include stationary time series, ARMA models, multivariate models, non-stationary models and unit roots, and co-integration.

ECON 331(3310) Money and Credit (SBA)

Spring. 4 credits. Prerequisites: ECON 101-102 and 314. A systematic treatment of the determinants of the money supply and the volume of credit. Economic analysis of credit markets and financial institutions in the United States.

ECON 333(3330) Financial Economics (SBA)

Fall. 4 credits. Prerequisites: ECON 313 and 314. Examines the theory and decision making in the presence of uncertainty and the practical aspects of particular asset markets.

ECON 335(3350) Public Finance: The Microeconomics of Government (SBA)

Fall. 4 credits. Prerequisites: ECON 101-102 and 313, or equivalent, and one semester of calculus. Analyzes the role of government in a free market economy. Topics include public goods, market failures, allocation mechanisms, optimal taxation, effects of taxation, and benefit-cost analysis. Current topics of an applied nature vary from semester to semester.

ECON 336(3360) Public Finance: Resource Allocation and Fiscal Policy (SBA)

Spring. 4 credits. Prerequisites: ECON 101-102, 313 or equivalent and one semester of calculus. Covers the revenue side of public finance and special topics. Subjects include the federal debt, the budget, and government regulation and transfers, as well as problems like local public goods, health care, education, the hierarchy of governmental structure, plus a variety of applied problems.

ECON 337(3370) Equilibrium and Welfare Economics (SBA)

Fall. 4 credits. Prerequisites: ECON 313, 314, 319. Introduction to the theory of competitive equilibrium and economic efficiency. Begins with a review of the Walrasian model and identify conditions under which a price-guided decentralized competitive economy achieves an optimal allocation of resources. Presents a number of celebrated examples and applications: the standard 2x2x2 model of international trade, Leontief's input-output model, Morishima's interpretation of labor theory of value, Arrow's analysis of uncertainty and Amartya Sen's analysis of famines. Finally, problems of market failure are reviewed.

[ECON 339(3390) State and Local Public Finance (SBA)]

Spring. 4 credits. Prerequisite: ECON 313. Next offered 2007-2008. Examines the role of subnational governments and jurisdictions in the economy. Among the broad questions addressed are: what tasks are optimally assigned to local governments? What impact can such assignment have on efficiency and equity? How do inter-government financial relations affect these outcomes? The theory and evidence on these issues are analyzed, with frequent application

to current issues, like debates surrounding local, school district-based provision of education.]

ECON 341(3410) Economics of Wages and Employment II (SBA)

For description, see ILRLE 440.

ECON 342(3420) Economic Analysis of the University

For description, see ILRLE 648.

ECON 344(3440) Development of Economic Thought and Institutions

For description, see ILRLE 344.

ECON 347(3470) Economics of Education

For description, see ILRLE 647.

ECON 351(3510) Industrial Organization I (SBA)

Fall. 4 credits. Prerequisite: ECON 313 or equivalent. Examines markets with only a few firms (i.e., oligopolies), and the primary focus is the strategic interactions between firms. Topics include static competition in oligopolies, cartels and other forms of collusive behavior, competition between firms producing differentiated products, entry behavior, RD behavior, and government interventions in oligopoly industries (e.g., antitrust laws).

ECON 352(3520) Industrial Organization II (SBA)

Spring. 4 credits. Prerequisite: ECON 313 or equivalent. Focuses primarily on the pricing decisions of firms. The course does not consider the strategic response of other firms to these pricing decisions. The pricing decisions include price discrimination, commodity bundling, pricing a product line and pricing a durable good. In addition to pricing decisions, the course considers topics associated with private information such as adverse selection, signaling, and moral hazard. Numerous theoretical models are presented and empirical results are discussed.

ECON 354(3540) The Economics of Regulation (SBA)

Fall. 4 credits. Prerequisite: ECON 313 or equivalent. Regulation constrains individual and institutional behavior. These interfaces between the private and public sectors are explored in terms of their rationale, efficacy, and economic consequences. Regulation is examined as a system of incentives that guides the development and efficient functioning of markets, that moulds the behavior of regulated industries like utilities and that elicits socially desirable levels of pollution, congestion, risk and benefits from externality-generating activities. How the various professions (law, accounting and engineering) view and address these challenges are examined in light of their economic effects.

ECON 358(3580) Behavioral Economics (SBA)

Spring. 4 credits. Prerequisite: ECON 313. Introduces students to behavioral economics, an emerging subfield of economics that incorporates insights from psychology and other social sciences into economics. Examines evidence on how human behavior systematically departs from the standard assumptions of economics, and also investigates attempts by behavioral economists to improve economic analyses.

ECON 361(3610) International Trade Theory and Policy (SBA)

Fall. 4 credits. Prerequisites: ECON 101-102 and 313. Surveys the sources of comparative advantage. Studies commercial policy and analyzes the welfare economics of trade between countries. Some attention is paid to the institutional aspects of the world trading system.

ECON 362(3620) International Monetary Theory and Policy (SBA)

Spring and summer. 4 credits. Prerequisites: ECON 101-102 and 314. Surveys the determination of exchange rates and theories of balance of payments adjustments. Also explores open economy macroeconomics and analyzes some of the institutional details of foreign exchange markets, balance of payments accounting, and the international monetary system.

ECON 367(3670) Game Theoretic Methods (SBA)

Fall. 4 credits. Prerequisites: ECON 101 or equivalent. ECON 367 is *not* a prerequisite for ECON 368. Introduces students to the use of game-theoretic methods for the social sciences. This leads to an analysis of the social and political foundations of economics that prepares students to think strategically on social and economic matters and thus serves as a background for more advanced courses in economics, game theory, and related social sciences.

ECON 368(3680) Game Theory (MQR)

Spring. 4 credits. Prerequisites: ECON 313 and 319. ECON 367 is *not* a prerequisite for ECON 368. Studies mathematical models of conflict and cooperation in situations of uncertainty (about nature and about decision makers).

ECON 371(3710) Economic Development (SBA)

Fall. 4 credits. Prerequisite: ECON 313 or equivalent. Studies the problem of sustaining accelerated economic growth in less-developed countries. Emphasizes trade-offs between growth, welfare, and equity; the legacy of colonialism; relevance of history and economic theory; problems of capital formation, economic planning and international specialization; and the interaction of industrialization, agricultural development, and population change.

ECON 372(3720) Applied Economic Development (SBA)

Spring. 4 credits. Prerequisite: ECON 101-102. Examines several special topics in the economics of developing countries. Recent topics are the concepts of development and underdevelopment, the debate over development economics, the peasant household and its place in the world economy, the debt crisis, the state vs. market debate and the role of the state in economic development, and the question of sustainable development.

ECON 404(4040) Economics and the Law (SBA)

Fall. 4 credits. Prerequisite: ECON 101. Examines, through the lens of economic analysis, of legal principles drawn from various branches of law, including contracts, torts, and property. Cases are assigned for class discussion; in addition, there are several writing assignments.

ECON 408(4080) Production Economics and Policy (SBA)

For description, see AEM 608.

ECON 405(4050) Auction Seminar (MQR)
Spring. 4 credits. Prerequisites: ECON 314, 319, 320, and 368.

Uses theoretical and empirical methods to analyze bidding behavior in auctions. The first part of the course studies theoretical models of auctions. The role of private information is discussed in the context of two empirically important auction formats: the first-price-sealed-bid and the open-ascending-bid auction. Bid-shading and the winner's curse are explained in these models. Optimal selling strategies as well as the issue of bidder collusion are analyzed. In the second part, empirical evidence on these topics is discussed in the context of outer continental-shelf oil auctions, Internet auctions, and treasury bill and spectrum auctions. One session is devoted to an auction experiment in class. In the final part of the course, students present and debate the issues of their semester papers. Readings are assigned weekly from the reading packet.

ECON 409(4090) Environmental Economics (SBA)

For description, see AEM 451.

[ECON 416(4160) Intertemporal Economics (SBA)]

Fall. 4 credits. Prerequisite: ECON 313. Next offered 2007–2008.

Intended for advanced economics majors who are especially interested in economic theory. Topics include (1) review of the one good Ramsey model of optimal savings and accumulation; conditions for intertemporal efficiency in production; comparative dynamics and sensitivity analysis; (2) some earlier models of capital accumulation; the roles of present value and internal rate of return in guiding investment decisions; (3) growth, exhaustible resources; pollution and conservation: discussion of the trade-offs facing a society.]

ECON 417(4170) History of Economic Analysis # (HA)

Spring. 4 credits. Prerequisites: ECON 101–102 or permission of instructor.

Covers early writings in economics and their relationship to current economic analysis and policy issues. Examples include: ancient and medieval philosophers on justice in exchange; mercantilist arguments for trade protection; early theories about the effect of monetary expansion (D. Hume); the role of the entrepreneur (Cantillon); and general competitive equilibrium (the Physiocrats). The most recent reading assignment in this course is Adam Smith's *Wealth of Nations* but the emphasis is on the relationship between the precursors of Adam Smith and his *Wealth of Nations* to modern economics analysis and current efforts to answer some of the questions raised in the early writing on economics.

[ECON 419(4190) Economic Decisions under Uncertainty]

Fall. 4 credits. Prerequisites: ECON 313 and 319. Next offered 2007–2008.

Provides an introduction to the theory of decision making under uncertainty with emphasis on economic applications of the theory.]

ECON 430(4300) Policy Analysis: Welfare Theory, Agriculture, and Trade (SBA)

For description, see AEM 630.

[ECON 431(4310) Monetary Economics (MQR)]

Spring. 4 credits. Prerequisites: ECON 313 and 314. Next offered 2007–2008.

Covers monetary theory, history, and policy. Topics include transaction costs, centralized and bilateral trading, media of exchange, international exchange and monetary arrangements, and central bank and its policy.]

ECON 434(4340) Financial Economics, Derivatives, and Risk Management (SBA)

Summer only. 4 credits. Prerequisite: ECON 313.

Helps students understand, design, and price derivative contracts. Topics include pricing of forwards, options, and swaps; developing trading strategies with derivatives; using derivatives for financial risk management; and the importance of flexibility in various economic settings.

ECON 440(4400) Analysis of Agricultural Markets

ECON 440 and 441 together, count as one course for economics majors.

For description, see AEM 640.

ECON 441(4410) Commodity Futures Markets

ECON 440 and 441, together, count as one course for economics majors.

For description, see AEM 641.

ECON 443(4430) Compensation, Incentives, and Productivity

For description, see ILRLE 443.

ECON 444(4440) Evolution of Social Policy in Britain and America

For description, see ILRLE 444.

ECON 445(4450) Industrial Policy (SBA)

Spring. 4 credits. Prerequisite: ECON 313.

Highlights of the course include (1) the role of the state in an industrial society; the drive for industrialization; the prevention of de-industrialization; the views of the Nobelists—Friedman, the Libertarian vs. North, the institutionist; the original intent of *laissez-faire*; (2) the major debates—the pros and cons of the Washington Consensus (“liberalization”); IMF and “conditionality”; market failure vs. government failure as roots for crises; (3) the East Asian episodes; Komiya on the Japanese MITI—early successes/recent problems; Linsu Kim about Korean policy—are subsequent difficulties the necessary price for the early triumphs?; industrial policy without protectionism (the cases of Singapore and Penang, Malaysia)—viable approaches under the WTO rules; (4) present developments and implications; trade frictions (the export expansion of the PRC); environmental concerns.

ECON 447(4470) Economics of Social Security (SBA)

For description, see PAM 346.

ECON 450(4500) Resource Economics (SBA)

For description, see AEM 450.

ECON 451(4510) Economic Security (SBA)

For description, see ILRLE 340.

ECON 455(4550) Income Distribution (SBA)

For description, see ILRLE 441.

ECON 456(4560) The Economics of Employee Benefits (SBA)

For description, see ILRLE 442.

ECON 457(4570) Women in the Economy (also FGSS 446(4460)) (SBA)

For description, see ILRLE 445.

ECON 458(4580) Topics in 20th-Century Economic History (SBA)

For description, see ILRLE 448.

ECON 459(4590) Economic History of British Labor 1750 to 1940 (SBA)

For description, see ILRLE 446.

ECON 460(4600) Economic Analysis of the Welfare State (SBA)

For description, see ILRLE 642.

ECON 461(4610) The Economics of Occupational Safety and Health (SBA)

For description, see ILRLE 644.

[ECON 469(4690) China's Economy under Mao and Deng @ (SBA)]

Spring. 4 credits. Prerequisite: ECON 101–102 or permission of instructor. Next offered 2007–2008.

Examines the development of the Chinese economy and the evolution of China's economic system between the early 1990s and late 1990s.]

ECON 473(4730) Economics of Export-Led Development @ (SBA)

Spring. 4 credits. Prerequisites: ECON 313, 314, or equivalent.

Examines the phenomenon of export-led development from both the theoretical and empirical points of view. Concentration is on experiences within the West Pacific Rim.

ECON 474(4740) Economics of Hunger and Malnutrition

For description, see NS 457.

[ECON 475(4750) The Economy of India @ (SBA)]

Fall. 4 credits. Prerequisite: ECON 101–102 or equivalent background. Next offered 2007–2008.

Presents the major economics and development problems of contemporary India and examines the country's future economic prospects. The aim is, however, to discuss these problems in their proper historical perspectives. Hence, the course starts with a brief outline of the social and political history of India. It then turns to a more detailed account of the economic history of India in two stages.]

ECON 476(4760) Decision Theory I (also ECON 676(6760), CIS 576(5846)) (MQR)

Fall. 4 credits.

Research on decision theory resides in a variety of disciplines including computer science, economics, game theory, philosophy, and psychology. This course attempts to integrate these various approaches. The course is taught jointly by faculty from Game Theory and Computer Science. The course covers several areas: (1) basic decision theory. This theory, sometimes known as “rational choice theory,” is part of the foundation for the disciplines listed above. It applies to decisions made by individuals or by machines; (2) the limitations of and problems with this

theory. Issues discussed here include decision theory paradoxes revealed by experiments, cognitive and knowledge limitations, and computational issues; (3) new research designed in response to these difficulties. Issues covered include alternative approaches to the foundations of decision theory, adaptive behavior and shaping the individual decisions by aggregate/evolutionary forces and more computationally based approaches.

ECON 477(4770) Decision Theory II (also ECON 677(6770), CIS 577(5847)) (MQR)

Spring. 4 credits. Prerequisite: ECON 476 or 676 or CIS 576.

A continuation of ECON 476.

ECON 480(4800) The Family in Asia

For description, see D SOC 480.

ECON 494(4940) Economic Methods for Engineering and Management

For description, see CEE 594.

ECON 498(4980) Independent Study in Economics

Fall or spring. Variable credit.

Independent study.

ECON 499(4990) Honors Program

Fall and spring. 8 credits. Prerequisites: ECON 313, 314, 321 (or 319-320).

Students should consult the director of undergraduate studies for details. Admission is competitive. Interested students should apply to the program in the spring semester of their junior year.

Graduate Courses and Seminars

ECON 609(6090) Microeconomic Theory I

Fall. 4 credits.

Topics in consumer and producer theory.

ECON 610(6100) Microeconomic Theory II

Spring. 4 credits.

Topics in consumer and producer theory, equilibrium models and their application, externalities and public goods, intertemporal choice, simple dynamic models and resource depletion, choice under uncertainty.

ECON 613(6130) Macroeconomic Theory I

Fall. 4 credits.

Covers the following topics: static general equilibrium; intertemporal general equilibrium; infinitely lived agents models and overlapping generations models; welfare theorems; equivalence between sequential markets and Arrow-Debreu Markets; Ricardian proposition; Modigliani-Miller theorem; asset pricing; recursive competitive equilibrium; the Neoclassical Growth Model; calibration; and introduction to dynamic programming.

ECON 614(6140) Macroeconomic Theory II

Spring. 4 credits.

Covers the following topics: dynamic programming; stochastic growth; search models; cash-in-advance models; real business-cycle models; labor indivisibilities and lotteries; heterogeneous agents models; optimal fiscal and monetary policy; sustainable plans; and endogenous growth.

ECON 617(6170) Intermediate Mathematical Economics I

Fall. 4 credits. Prerequisites: calculus II and intermediate linear algebra.

Covers selected topics in Matrix algebra (vector spaces, matrices, simultaneous linear equations, characteristic value problem), calculus of several variables (elementary

real analysis, partial differentiation, convex analysis), classical optimization theory (unconstrained maximization, constrained maximization).

[ECON 618(6180) Intermediate Mathematical Economics II

Spring. 4 credits. Next offered 2007-2008. Continuation of ECON 617. Develops additional mathematical techniques for applications in economics. Topics may include study of dynamic systems (linear and nonlinear difference equations, differential equation, chaotic behavior), dynamic optimization methods (optimal control theory, nonstochastic and stochastic dynamic programming), and game theory (repeated dynamic and evolutionary games).]

ECON 619(6190) Econometrics I

Fall. 4 credits. Prerequisite: ECON 319-320 or permission of instructor.

Gives the probabilistic and statistical background for meaningful application of econometric techniques. Topics include probability theory probability spaces, random variables, distributions, moments, transformations, conditional distributions, distribution theory and the multivariate normal distribution, convergence concepts, laws of large numbers, central limit theorems, Monte Carlo simulation; statistics: sample statistics, sufficiency, exponential families of distributions. Further topics in statistics are considered in ECON 620.

ECON 620(6200) Econometrics II

Spring. 4 credits. Prerequisite: ECON 619. A continuation of ECON 619 (Econometrics I) covering statistics: estimation theory, least squares methods, method of maximum likelihood, generalized method of moments, theory of hypothesis testing, asymptotic test theory, and nonnested hypothesis testing; and econometrics: the general linear model, generalized least squares, specification tests, instrumental variables, dynamic regression models, linear simultaneous equation models, nonlinear models, and applications.

ECON 669(6690) Economics of Information

Spring. 4 credits. Prerequisite: ECON 609. Classic models of "perfect competition" require that economic agents are fully informed, or at least equally informed, about all relevant economic information: prices, descriptions of commodities, and so forth. This course will study theoretical models that examine the difficulties of resource allocation when this assumption fails. The course will discuss models of: Auctions, adverse selection, bargaining, mechanism design, moral hazard, screening, searching and sorting. The course will begin with a survey of rudimentary incomplete information games that will be useful in reading the literature to follow. Evaluation will be through problem sets and exams.

ECON 676(6760) Decision Theory I (also ECON 476(4760), CIS 576(5846))

For description, see ECON 476.

ECON 677(6770) Decision Theory II (also ECON 477(4770), CIS 577(5847))

For description, see ECON 477.

ECON 691(6910) Health Economics I

For description, see PAM 691.

ECON 692(6920) Health Economics II

For description, see PAM 692.

ECON 699(6990) Readings in Economics

Fall or spring. Variable credit. Independent study.

ECON 703(7030) Seminar in Peace Science

Fall. 4 credits.

Topics covered at an advanced level are: game theory, coalition theory, bargaining and negotiation processes, cooperative procedures, microbehavior models, macrosocial processes, and general systems analysis.

ECON 710(7100) Stochastic Economics: Concepts and Techniques

Spring. 4 credits. Prerequisites: ECON 609, 610, 613, 614, 619, and 620.

Reviews a number of techniques that have been useful in developing stochastic models of economic behavior. These include discrete-time Markov processes, dynamic programming under uncertainty, and continuous-time diffusion processes. Examples of economic models are drawn from recent literature on optimal capital accumulation and optimal savings and portfolio selection problems; permanent income hypothesis; and dynamic models of price adjustment. Advanced graduate students contemplating work in economic theory and econometric theory gain exposure to current research.

ECON 712(7120) Advanced Macroeconomics

4 credits. Prerequisites: ECON 613, 614.

Introduces students to some of the topics and analytic techniques of current macroeconomic research. The course has three parts: dynamic programming, new Keynesian economics, and recent theories of economic growth. The dynamic programming section includes models of consumption, investment, and real business cycles. The new Keynesian section covers models of wage and price rigidity, coordination failure, and credit markets. The section on endogenous growth looks at recent efforts to add nonconvexities to models of optimal growth. These topics are intended to complement the material on overlapping generations covered elsewhere.

ECON 713(7130) Advanced Macroeconomics II

Spring. 4 credits. Prerequisites: ECON 613, 614.

Reviews the most recent research in endogenous growth theory. This theory is little more than a decade old, but it has produced a large number of both empirical and theoretical results that have substantially reshaped the general field of macroeconomics. It is perhaps no exaggeration to say that most of the work at the frontier of today's macroeconomics belongs to this field. An increasing number of papers have been touching important issues such as learning by doing, RD investment, market structure, private and public organization of RD, education financing, human capital accumulation, technological unemployment, growth and business cycles, inequality and growth, political equilibrium, democracy and growth, instability, social conflict, capital accumulation, intergenerational and vested interests and barriers to technology adoption, international transfers of technologies, and sustainable development. This course aims to orient the student in this large and variegated literature consisting of recently published articles and working papers. Understanding this literature is a sound training in the analytical methods used at the frontier of theoretical research, but it also provides a

number of empirical results at the center of the economic debate.

ECON 714(7140) Empirical Macroeconomics

Spring. 4 credits. Prerequisites: ECON 613 and 614.

Advanced graduate-level course emphasizing empirical applications. Students learn how to deal with data and how to estimate and test macroeconomic theories, and can develop research topics in applied macroeconomics for their dissertations.

ECON 717(7170) Mathematical Economics

4 credits. Prerequisites: ECON 609–610 (or equivalent training in micro theory) and MATH 413–414 (or equivalent training in analysis).

The primary theme of this course is to explore the role of prices in achieving an efficient allocation of resources in dynamic economies. Some of the classical results on static equilibrium theory and welfare economics on attaining optimal allocation through decentralized organizations are examined through an axiomatic approach. Some basic issues on capital theory are also analyzed.

[ECON 718(7180) Topics in Mathematical Economics

Spring. 4 credits. Next offered 2007–2008.]

ECON 719(7190) Advanced Topics in Econometrics I

Fall. 4 credits. Prerequisite: ECON 619–620 or permission of instructor.

Covers advanced topics in econometrics, such as asymptotic estimation and test theory, robust estimation, Bayesian inference, advanced topics in time-series analysis, errors in variable and latent variable models, qualitative and limited dependent variables, aggregation, panel data, and duration models.

ECON 720(7200) Advanced Topics in Econometrics II

Spring. 4 credits. Prerequisite: ECON 619–620 or permission of instructor.

For description see ECON 719.

ECON 721(7210) Time Series Econometrics

Spring. 4 credits. Prerequisite: ECON 619–620 or permission of instructor.

Covers traditional and current time series techniques that are widely used in econometrics. Topics include the theory of stationary stochastic processes including univariate ARMA(p,q) models, spectral density analysis, and vector autoregressive models; parametric and semi-parametric estimation; current developments in distributional theory; and estimation and testing in models with integrated regressors including, unit root tests, cointegration, and permanent vs. transitory components.

ECON 722(7210) Topics in Time Series Econometrics

Spring. 4 credits. Prerequisite: ECON 721.

Covers topics not treated by ECON 721. These include co-integration, fractional integration, long memory, and ARCH/GARCH models. Other topics may also be considered based on the interests of the students.

ECON 723(7230) Semi/Non Parametric Econometrics

Fall. 4 credits. Prerequisite: ECON 619–620 or permission of instructor.

Analyzes the ways identification problems limit the conclusions that may be drawn in empirical economic research and studies how identified and partially identified parameters can be estimated. In the first part of the course, the focus is on nonparametric models. Ways data can be combined with weak assumptions to yield partial identification of population parameters are discussed.

ECON 731(7310) Monetary Economics

Spring. 4 credits. Prerequisites: ECON 614 or permission of instructor.

Covers advanced topics in monetary economics, macroeconomics, and economic growth—such as overlapping-generations, taxes and transfers denominated in money, transactions demand for money, multi-asset accumulation, exchange rates, and financial intermediation.

ECON 732(7320) Monetary Economics

Fall. 4 credits. Prerequisites: ECON 731 or permission of instructor.

Covers advanced topics in monetary economics, macroeconomics, and economic growth—such as economic volatility, the "burden" of government debt, restrictions on government borrowing, dynamic optimization, endogenous growth theory, technological evolution, financial market frictions, and cyclical fluctuations.

ECON 735(7350) Public Finance: Resource Allocation and Fiscal Policy (also AEM 735[7350])

Fall. 4 credits.

Develops a mathematical and highly analytical understanding of the role of government in market economies and the fundamentals of public economics and related issues. Topics include generalizations and extensions of the fundamental theorems of welfare economics, in-depth analysis of social choice theory and the theory on implementation in economic environments, public goods and externalities and other forms of market failure associated with asymmetric information. The theoretical foundation for optimal direct and indirect taxation is also introduced along with the development of various consumer surplus measures and an application to benefit cost analysis. Topics of an applied nature vary from semester to semester depending on faculty research interests.

ECON 736(7360) Public Finance: Resource Allocation and Fiscal Policy

Spring. 4 credits.

Spends a large part of the semester covering the revenue side of public finance. Topics include the impact of various types of taxes as well as the determination of optimal taxation. The impact of taxation on labor supply, savings, company finance and investment behavior, risk bearing, and portfolio choice are explored. Other topics include the interaction of taxation and inflation, tax evasion, tax incidence, social security, unemployment insurance, deficits, and interactions between different levels of government.

[ECON 737(7370) Location Theory and Regional Analysis

Fall. 4 credits. Prerequisites: ECON 609, 617, and econometrics course. Next offered 2007–2008.

Covers economic principles influencing the location of economic activity, its spatial equilibrium structure, and dynamic forces.

Topics include spatial pricing policies, price competition, and relocation by firms; residential location patterns; patterns of regional growth and decline; and patterns of urbanization.]

ECON 738(7380) Public Choice

Spring. 4 credits. Prerequisites: ECON 609, 610.

This course has two parts. It begins with an introduction to economic theories of political decision making. Reviews the theory of voting, theories of political parties and party competition, theories of legislative decision making and interest group influence. Also discusses empirical evidence concerning the validity of these theories. The second part uses these theories to address a number of issues in public economics. Develops the theory of political failure, analyzes the performance of alternative political systems and discusses the problem of doing policy analysis, which takes into account political constraints.

ECON 739(7390) Advanced Topics in State and Local Public Finance

Spring. 4 credits. Prerequisites: ECON 609, 620.

Provides an in-depth examination of microeconomic theory surrounding the role of subnational governments and jurisdictions in the economy. Among the broad questions addressed are: What tasks are optimally assigned to local governments? What impact can such assignment have on efficiency and equity? In addition to the theoretical foundations on these issues, the course explores recent empirical evidence in this area, with particular attention to the research designs and data used in relevant papers.

ECON 741(7410) Seminar in Labor Economics

For description, see ILRL 744.

ECON 742(7420) Seminar in Labor Economics

For description, see ILRL 745.

ECON 743(7430) Seminar in Labor Economics

For description, see ILRL 746.

ECON 746(7460) Economics of Higher Education

For description, see ILRL 746.

ECON 747(7470) Economics of Higher Education

For description, see ILRL 747.

ECON 748(7480) Applied Econometrics I

For description, see ILRL 741.

ECON 749(7490) Applied Econometrics II

For description, see ILRL 742.

ECON 751(7510) Industrial Organization and Regulation

Fall. 4 credits. Prerequisites: ECON 609, 610.

Focuses primarily on recent theoretical advances in the study of industrial organization. Topics include market structure, nonlinear pricing, quality, durability, location selection, repeated games, collusion, entry deterrence, managerial incentives, switching costs, government intervention, and R&D/patents. These topics are discussed in a game-theoretic context.

ECON 752(7520) Industrial Organization and Regulation

Spring. 4 credits. Prerequisites: ECON 609, 610, 751.

Rounds out some topics in the theory of industrial organization with the specific intent of addressing the empirical implications of the theory. Reviews empirical literature in the SCP paradigm and in the NEIO paradigm.

ECON 756(7560) Noncooperative Game Theory

Fall. 4 credits. Prerequisites: ECON 609-610 and 619.

Surveys equilibrium concepts for noncooperative games. Covers Nash equilibrium and a variety of equilibrium, refinements, including perfect equilibrium, proper equilibrium, sequential equilibrium and more. Pays attention to important special classes of games, including bargaining games, signalling games, and games of incomplete information. Most of the analysis is from the strict decision-theoretic point of view, but also surveys some models of bounded rationality in games, including games played by automata.

ECON 757(7570) Economics of Imperfect Information

Spring. 4 credits. Prerequisites: ECON 609-610 and 619.

Considers some major topics in the economics of uncertain information. Although the precise topics considered vary from year to year, subjects such as markets with asymmetric information, signalling theory, sequential choice theory, and record theory are discussed.

ECON 758(7580) Psychology and Economic Theory

Fall, spring. 4 credits. Prerequisites: economics graduate core or permission of instructor.

Explores the ways in which insights from psychology can be integrated into economic theory. Presents evidence on how human behavior systematically departs from the standard assumptions of Economics and how this can be incorporated into modeling techniques.

ECON 760(7600) Topics in Political Economy

Fall. 4 credits. Prerequisite: economics graduate core or permission of instructor.

Develops critiques and extensions of economic theory, taking into account the political and social moorings of economic activity and equilibria. The formation and persistence of social norms; the meaning and emergence of property rights; the role of policy advice in influencing economic outcomes; and the effect of political power and ideology on economic variables are studied. While these topics were popular in the classic works of political economy, recent advances in game theory and, more generally, game-theoretic thinking allows a new approach to these topics. Hence, the course begins by devoting some lectures to elementary ideas in game-theory and strategic analysis.

ECON 761(7610) International Economics: Trade Theory and Policy

Fall. 4 credits. Prerequisites: ECON 609, 610.

Surveys the sources of comparative advantage. Analyzes simple general equilibrium models to illustrate the direction, volume, and welfare effects of trade. Topics in game theory and

econometrics as applied to international economics may be covered.

ECON 762(7620) International Economics: International Finance and Open Economy Macroeconomics

Spring. 4 credits. Prerequisite: ECON 761.

Surveys the determination of exchange rates and theories of balance of payment adjustments. Explores open economy macroeconomics by analyzing models of monetary economies. Topics in monetary economics and econometrics as applied to international economics are covered.

ECON 763(7630) Topics in International Economic History

Spring. 4 credits. Prerequisite: solid understanding of international trade and finance.

Covers selected topics in modern economic history. Focuses on the process of international economic integration, or globalization. Traces the roots of globalization and its evolution in the last several centuries. Special attention is paid to the relationship between international market integration and economic growth.

ECON 770(7700) Topics in Economic Development

For description, see AEM 667.

ECON 771(7711) Empirical Methods for the Analysis of Household Survey Data: Applications to Nutrition, Health, and Poverty

Spring. 4 credits. Prerequisites: economics graduate core.

Focuses on empirical methods for the analysis of household survey data. Explores the hands-on use of such data to address policies issues related to welfare outcomes, particularly nutrition, health, education, and poverty. Covers empirical methods as they apply to a series of measurement and modeling issues, as well as the valuation of interventions. While underlying theory is reviewed briefly, the course attempts to bridge the gap between theory and practice, addressing issues such as model identification, functional form, estimation techniques to control for endogeneity and heterogeneity, and so forth. The course grade is based primarily on two empirical exercises, and related write-up, as well as class participation. Students are given actual household data sets and software with which to conduct exercises. These data enable students to apply analytical techniques discussed. Data sets are provided from African, Asian, and Latin American countries.

ECON 772(7720) Economics of Development (also ILRLE 749[7490])

Spring. 4 credits. Prerequisites: first-year graduate economic theory and econometrics.

Analytical approaches to the economic problems of developing nations. Topics include old and new directions in development economics thinking, the welfare economics of poverty and inequality, empirical evidence on who benefits from economic development, labor market models, project analysis with application to the economics of education, and development policy.

ECON 773(7730) Economic Development

Fall. 4 credits. Prerequisites: ECON 609, 610, and 611.

Concerned with theoretical and applied works that seek to explain economic development,

or lack thereof, in countries at low-income levels. Specific topics vary each semester.

ECON 774(7740) Economic Systems

Spring. 4 credits.

Deals with economic systems, formerly centrally planned economies, and economies in transition.

ECON 775(7750) Development Microeconomics

Spring. 4 credits. Prerequisites: economics graduate core.

Explores the application of microeconomic analysis to economic issues in developing countries. Focuses on household behavior and the analysis of rural institutions. Covers the neoclassical agricultural household model and recent developments in the theory of the household, topics in rural economies, financial arrangements, program evaluation and the interaction of social norms and economic organization. Designed to prepare students for applied research in micro development economics by giving an overview over the current state of research in that discipline.

ECON 784(7840) Seminars in Advanced Economics

Fall and spring. 4 credits.

ECON 785(7850) Third-Year Research Seminar

Fall. 4 credits.

ENGLISH

M. Hite, chair; D. Mao, director of undergraduate studies (255-3492); J. Adams, director of graduate studies (255-7989); D. Schwarz, director of honors program; K. Biers, F. Bogel, L. Bogel, M. P. Brady, L. Brown, J. Carlacio, C. Chase, E. Cheyfitz, B. Correll, J. Culler, S. Davis, E. DeLoughrey, L. Donaldson, L. Fakundiny, D. Fried, A. Fulton, A. Galloway, R. Gilbert, K. Gottschalk, E. Hanson, T. Hill, M. Hite, P. Janowitz, B. Jeyifo, W. Jones, R. Kalas, M. Koch, J. Lennon, P. Lorenz, B. Maxwell, K. McClane, M. McCoy, M. K. McCullough, S. Mohanty, R. Morgan, T. Murray, R. Parker, E. Quinonez, M. Raskolnikov, N. Saccamano, S. Samuels, P. Sawyer, H. Shaw, S. Siegel, H. Spillers, L. VanClief-Stefanon, S. Vaughn, H. Viramontes, N. Waligora-Davis, S. Wong, D. Woubshet, S. Zacher. Emeriti: M. H. Abrams, B. Adams, J. Bishop, J. Blackall, A. Caputi, D. Eddy, R. Elias, L. Herrin, M. Jacobus, C. Kaske, A. Lurie, P. Marcus, D. McCall, J. McConkey, D. Mermin, S. Parrish, J. Porte, M. Radzinowicz, E. Rosenberg, S. C. Strout, W. Wetherbee.

The Department of English offers a wide range of courses in English, American, and Anglophone literature as well as in creative writing, expository writing, and film analysis. Literature courses focus variously on close reading of texts, study of particular authors and genres, questions of critical theory and method, and the relationship of literary works to their historical contexts and to other disciplines. Writing courses typically employ the workshop method in which students develop their skills by responding to criticism of their work by their classmates as well as their instructors. Many students supplement their formal course work in English by attending public lectures and poetry readings sponsored by the department or by writing for campus literary magazines. The department

seeks not only to foster critical analysis and lucid writing but also to teach students to think about the nature of language and to be alert to both the rigors and the pleasures of reading texts of diverse inspiration.

First-Year Writing Seminars

As part of the university-wide First-Year Writing Seminars program administered by the John S. Knight Institute for Writing in the Disciplines, the department offers many one-semester courses dealing with various forms of writing (e.g., narrative, autobiographical, and expository), with the study of specific areas in English and American literature, and with the relation of literature to culture. Students may apply any of these courses to their first-year writing seminar requirement. Detailed course descriptions may be found in the first-year writing seminars program listings, available from college registrars in August for the fall semester and in November for the spring semester.

Freshmen interested in majoring in English are encouraged to take at least one of the department's 200-level first-year writing seminars: ENGL 270 The Reading of Fiction, ENGL 271 The Reading of Poetry, and ENGL 272 Introduction to Drama. These courses are open to all second-semester freshmen. They are also open, as space permits, to first-semester freshmen with scores of 700 or above on the CEEB College Placement Tests in English composition or literature, or 4 or 5 on the CEEB Advanced Placement Examination in English, as well as to students who have completed another first-year writing seminar.

Courses for Nonmajors

For students majoring in fields other than English, the department provides a variety of courses at all levels. A number of courses at the 200 level are open to qualified freshmen, and all are open to sophomores. Courses at the 300 level are open to all sophomores, juniors, and seniors; they are also open to freshmen who have received the instructor's prior permission. The suitability of courses at the 400 level for nonmajors depends in part on the course topics, which are subject to change from year to year. Permission of the instructor is sometimes required; prior consultation is always strongly advised.

The Major in English

Students who major in English develop their own programs of study in consultation with their major advisors. Some choose to focus on a particular historical period or literary genre or to combine sustained work in creative writing with the study of literature. Others pursue interests in such areas as women's literature, African-American literature, literature and the visual arts, or critical theory.

The department recommends that students prepare themselves for the English major by taking one or more of its preparatory courses, such as ENGL 270 The Reading of Fiction, ENGL 271 The Reading of Poetry, or ENGL 272 Introduction to Drama. (The "ENGL" prefix identifies courses sponsored by the Department of English, all of which appear in the English section of *Courses of Study* or the department's supplementary lists of courses; it also identifies courses sponsored and taught by other academic units and cross-listed with English.) These courses concentrate on the

skills basic to the English major and to much other academic work—responsive, sensitive reading and lucid, strong writing. As first-year writing seminars, any one of them will satisfy one half of the College of Arts and Science's first-year writing requirement. ENGL 280, 281, 288, and 289 are also suitable preparations for the major and are open to students who have completed their first-year writing seminar requirement. ENGL 201 and 202, which together constitute a two-semester survey of major British writers, though not required, are strongly recommended for majors and prospective majors. ENGL 201 and 202 (unlike ENGL 280, 281, 288, and 289) are also "approved for the major" in the special sense of that phrase explained below.

To graduate with a major in English, a student must complete with passing letter grades 10 courses (40 credit hours) approved for the English major. All ENGL courses numbered 300 and above are approved for the major. In addition, with the exception of first-year writing seminars (ENGL 270, 271, and 272), 200-level courses in creative and expository writing (ENGL 280, 281, 288, and 289), and courses designated for nonmajors, all 200-level ENGL courses are also approved for the major. Courses used to meet requirements for the English major may also be used to meet the distribution requirements in the College of Arts and Sciences. Many of these courses may be used to meet the college's "historical breadth" requirement as well.

Of the 40 credits required to complete the major, 8 credits (two courses) must be at the 400 level or above; 12 credits (three courses) must be from courses in which 50 percent or more of the material consists of literature originally written in English before 1800; and another 12 credits (three courses) must form an intellectually coherent "concentration." The 400-level and pre-1800 requirements may be satisfied only with ENGL courses, and ENGL 493–494, the Honors Essay Tutorial, may not be used to satisfy either one. Courses that satisfy the pre-1800 requirement are so designated in *Courses of Study*. Many English majors use ENGL 201 to begin meeting this requirement since it provides an overview of earlier periods of British literature and so enables them to make more informed choices of additional pre-1800 courses. ENGL 202 does not qualify as a pre-1800 course. Neither do courses offered by other departments unless they are cross-listed with English. Advanced courses in foreign literature may not be used to fulfill the pre-1800 requirement, but they may be used for English major credit provided they are included within the 12-credit limit described below. The three-course concentration requirement may be satisfied with any courses approved for the major. The department's "Guide to the English Major" suggests areas of concentration and offers examples of courses that fall within those areas, but majors define their own concentrations in consultation with their advisors.

As many as 12 credits in appropriate courses offered by departments and programs other than English may be used to satisfy English major requirements. Courses in literature and creative writing offered by academic units representing neighboring or allied disciplines (German Studies, Romance Studies, Russian, Asian Studies, Classics, Comparative Literature, Africana Studies, the Society for the Humanities, American Studies, Feminist,

Gender and Sexuality Studies, Religious Studies, Asian American Studies, American Indian Studies, Latino Studies, and Theatre, Film, and Dance) are routinely counted toward the 40 hours of major credit provided they are appropriate for juniors or seniors, as are most courses at the 300 level and above. English majors who are double majors may exercise this option even if all 12 credits are applied to their second major. All English majors are urged to take courses in which they read foreign works of literature in the original language, and for that reason 200-level literature courses for which qualification is a prerequisite (as well as more advanced foreign literature courses) may be counted toward the English major. Credit from other non-ENGL courses may be included within the 12 credits of nondepartmental courses approved for the major only when the student is able to demonstrate to the advisor's satisfaction their relevance to his or her individual program of study.

Planning a Program of Study

Few students know from the moment they decide to pursue a major in English exactly what they wish to study. Moreover, it is natural for interests to change in the course of time. The effort of creating or discovering a coherent pattern in the courses selected is itself a valuable part of a literary (as well as a liberal) education, and English majors are expected to discuss their overall program of study when seeking their advisors' approval of courses each semester. While the Department leaves a great deal to the discretion of its individual majors and their academic advisers, it expects them to choose courses with an eye to breadth and variety on the one hand and focus and coherence on the other.

Students with a special interest in developing their skills as writers of verse or prose will find a variety of workshop courses in expository and creative writing. As a rule a student may not enroll in more than one such course in any given semester, although exceptions are sometimes allowed where one of these is ENGL 288 or 289.

A number of English majors do part of their coursework at a foreign institution, usually during their junior year; some spend a single semester away from campus, others an entire year. The Cornell Abroad office has information on a variety of programs at universities around the world. Many English majors study abroad in the United Kingdom and other English speaking countries, but some choose other locations. As long as they continue to meet all College and Department requirements or can complete them upon returning to Cornell, studying abroad poses no serious problems. Students spending their entire junior year abroad will be challenged to complete the Department's Honors program since they will be unable to take the required Honors seminar in the junior year and will have to take it when they return as seniors. They must make arrangements with the chair of the Honors Committee before leaving campus.

Credit for literature courses taken abroad can in most instances be applied to the 40-hour minimum for the English major, and to requirements like the concentration and pre-1800 requirements. Approval of requests to apply credit for study abroad to the English major is granted by the DUS rather than the

academic advisor, however, and students must confer with the DUS in advance of going abroad as well as on their return. The first conference includes a review of catalogue descriptions of courses the student expects to take while abroad (along with a few alternatives), the second a presentation of transcripts or equivalent documentation of successful completion of the work proposed, together with papers and exams.

No more than 16 credits per year, or 8 credits per semester, of non-Cornell credit may be applied to the English major. This restriction applies to study abroad even when that study is conducted under Cornell auspices.

The Major in English with Honors

Second-semester sophomores who have done superior work in English and related subjects are encouraged to seek admission to the departmental program leading to the degree of bachelor of arts with honors in English. Following an interview with the chair of the Honors Committee, qualified students will be admitted provisionally to the program. During their junior year these students complete at least one honors seminar (ENGL 491 or 492) and are encouraged to take an additional 400-level English course in the area of their thesis topic. On the basis of work in these and other English courses, a provisional honors candidate must select a thesis topic and secure a thesis advisor by the end of the junior year. A student who has been accepted by a thesis advisor becomes a candidate for honors rather than a provisional candidate.

During the senior year, each candidate for honors in English enrolls in a yearlong tutorial (ENGL 493-494) with the faculty member chosen as thesis advisor. The year's work culminates in the submission of a substantial scholarly or critical essay to be judged by at least two members of the faculty. More information about the Honors Program may be found in a leaflet available in the English offices.

First-Year Writing Seminars Recommended for Prospective Majors

ENGL 270(2700) The Reading of Fiction

Fall, spring, summer. 3 credits.
Each section limited to 17 students.
Recommended for prospective majors in English. *This course does not satisfy requirements for the English major.*

This course examines modern fiction, with an emphasis on the short story and novella. Students write critical essays on authors who flourished between 1870 and the present, such as James, Joyce, Woolf, Hurston, Lawrence, Fitzgerald, Hemingway, Faulkner, Rhys, Welty, Salinger, and Morrison. Reading lists vary from section to section, and some may include a novel, but close, attentive, and imaginative reading and writing are central to all.

ENGL 271(2710) The Reading of Poetry

Fall, spring. 3 credits. Each section limited to 17 students. Recommended for prospective English majors. *This course does not satisfy requirements for the English major.*

How can we become more appreciative, alert readers of poetry, and at the same time better writers of prose? This course attends to the rich variety of poems written in English, drawing on the works of poets from William Shakespeare to Sylvia Plath, John Keats to Li-

Young Lee, Emily Dickinson to A. R. Ammons. We may read songs, sonnets, odes, villanelles, even limericks. By engaging in thorough discussions and varied writing assignments, we explore some of the major periods, modes, and genres of English poetry, and in the process expand the possibilities of our own writing.

ENGL 272(2720) Introduction to Drama

Fall, spring. 3 credits. Each section limited to 17 students. Recommended for prospective English majors. *This course does not satisfy requirements for the English major.*

Students in this seminar study plays, older and newer, in a variety of dramatic idioms and cultural traditions. Plays being performed by the theatre department are included, if possible. A typical reading list might include works by Sophocles, Shakespeare, Chekhov, Brecht, Miller, Beckett, and Shange. Course work consists of writing and discussion, and the occasional viewing of live or filmed performances.

Expository Writing

ENGL 288-289(2880-2890) Expository Writing (LA)

Fall, spring, summer, and winter. 3 credits. Each section limited to 16 students. Students must have completed their colleges' first-year writing requirements or have the permission of the instructor. S. Davis and staff. Web site: <http://instruct1.cit.cornell.edu/Courses/engl288-289/> *This course does not satisfy requirements for the English major.*

ENGL 288-89 offers guidance and an audience for students who wish to gain skill in expository writing. Each section provides a context for writing defined by a form of exposition, a disciplinary area, a practice, or a topic intimately related to the written medium. Course members will read in relevant published material and write and revise their own work regularly, while reviewing and responding to one another's essays. Since these seminar-sized courses depend on members' full participation, regular attendance and submission of written work are required. Students and instructors will confer individually throughout the semester. ENGL 288-89 does not satisfy requirements for the English major.

Fall 2006 Listing: Section 1. Making the News, D. Pearlstein; Section 2. Endsight: Apocalyptic Fictions, T. Kearns; Section 3. The Reflective Essay, P. Gomez-Ibanez; Section 4. Constitutional Law and the Media: Issues, J. Carello; Section 5. The Essay: Personal to Public, C. Chung; Section 6. Issues, Audiences, and Ourselves, B. LeGendre; Section 7. American Political Satire After 9-11, E. Goode.

See English department course offerings for full fall and spring section descriptions.

ENGL 381(3810) Reading as Writing, Writing as Reading (LA)

Fall. 4 credits. Limited to 15 students. Prerequisite: permission of instructor based on a writing sample. S. Davis.

Every reading is a rewriting; arguably, every original imaginative work reads and rewrites itself and its predecessors as it goes along. We'll read 19th- and 20th-century works that illustrate this process while attending to one another's critical writing as collaborators and commentators. This is a course for English

majors and non-majors who wish to extend their mastery of critical and interpretive prose and their understanding of what they do when they write it. Tentatively for 2007: fiction by Vladimir Nabokov, Emily Brontë, Jean Rhys, Joseph Conrad, Tayeb Salih, Oscar Wilde, and Virginia Woolf and poetry by William Wordsworth and Edgar Allan Poe. See <http://instruct1.cit.cornell.edu/~sad4/rw/>.

ENGL 386(3860) Philosophic Fictions (LA)

Spring. 4 credits. Limited to 15 students. Prerequisite: permission of instructor based on a writing sample. S. Davis.

"Fictions" of thought and language abound in works that deliberately test and play with ideas: dialogues, satires, parables, philosophic tales, and "thought-experiments." Students will write critically about such works and will experiment with writing in similar forms in order to argue flexibly, ridicule vice and folly, or involve readers in pleasingly or disturbingly insoluble problems. Readings may include Plato's *Republic*, Swift's *Gulliver's Travels*, parables by Jesus and Kafka, dystopias by Ursula Le Guin and Caryl Churchill, science fiction by Philip K. Dick and Octavia Butler, short stories by Jorge Luis Borges and Flannery O'Connor, and essays by Richard Rorty and Jacques Derrida. See <http://instruct1.cit.cornell.edu/~sad4/fpf/>.

ENGL 387(3870) Autobiography: Theory and Practice (LA)

Fall. 4 credits. Limited to 15 students. By permission of instructor on the basis of writing samples. K. Gottschalk.

In this seminar, students engage in the study and practice of autobiographical writing through frequent writing assignments (resulting in production of a final portfolio of selected polished work) and through the examination of texts by writers such as Manette Ansay and Henry Louis Gates (both having strong ties to Cornell), Jamaica Kincaid, and Anne Lamott. Course limited to 15 students. Prerequisite: permission of the instructor on the basis of a writing sample, which should reach the instructor before the first day of class.

ENGL 388(3880) The Art of the Essay (LA)

Spring. 4 credits. Limited to 15 students. By permission of instructor on the basis of writing samples. Interested students should submit one or more pieces of recent writing (prose) to the instructor before the beginning of the semester, preferably at pre-enrollment. J. Carliacio.

For both English majors and nonmajors who have done distinguished work in first-year writing seminars and in such courses as ENGL 280-281, 288-289, and who desire intensive practice in writing essays as a kind of creative nonfiction. The course assumes a high degree of self-motivation, a capacity for independent work, and critical interest in the work of other writers; it aims for a portfolio of conceptually rich and stylistically polished writing.

Creative Writing

Students usually begin their work in Creative Writing with ENGL 280 or 281, and only after completion of the First-Year Writing Seminar requirement. Please note that either ENGL 280 or ENGL 281 is the recommended prerequisite for 300-level creative writing courses. ENGL 280 and 281 may satisfy a distribution requirement

in your college (please check with your college advisor). ENGL 382–383, 384–385, and 480–481 are approved for the English major.

ENGL 280–281(2800–2810) Creative Writing (LA)

Fall, spring, summer, winter. 3 credits. Limited to 18 students. Prerequisite: completion of the First-Year Writing Seminar requirement. **Majors and prospective majors, please note:** Although recommended for prospective English majors, ENGL 280–281 cannot be counted toward the 40 credits required for completion of the English major. It is a prerequisite for 300-level courses in creative writing, which count toward the major. ENGL 280 is not a prerequisite for ENGL 281.)

An introductory course in the theory, practice, and reading of prose, poetry, and allied forms. Students are given the opportunity to try both prose and verse writing and may specialize in one or the other. Many of the class meetings are conducted as workshops.

ENGL 382–383(3820–3830) Narrative Writing (LA)

Fall, 382; spring, 383. 4 credits each semester. Each section limited to 15 students. Prerequisite: ENGL 280 or 281 and permission of instructor based on submission of a manuscript (bring manuscript to first day of class). Fall: sec 1, H. Varamontes; sec 2, S. Vaughn; sec 3, R. Morgan; Spring: sec 1, M. Koch; sec 2, E. Quinonez; sec 3, M. McCoy.

The writing of fiction; study of models; analysis of students' work.

ENGL 384–385(3840–3850) Verse Writing (LA)

Fall or summer, 384; spring, 385. 4 credits. Each section limited to 15 students. Prerequisite: ENGL 280 or 281 and permission of instructor based on submission of manuscript (bring manuscript on first day of class). Fall: sec 1, K. McClane; sec 2, L. Van Clief-Stefanon. Spring: sec 1, A. Fulton; sec 2, staff.

The writing of poetry; study of models; analysis of students' poems; personal conferences.

ENGL 480–481(4800–4810) Seminar in Writing (LA)

Fall, 480; spring, 481. 4 credits each semester. Each section limited to 15 students. Prerequisite: permission of instructor, normally on the basis of a manuscript. The manuscript should be submitted to the instructor no later than the first day of class. Previous enrollment in ENGL 280 or 281 and at least one 300-level writing course recommended. Successful completion of one half of the 480–481 sequence does not guarantee enrollment in the other half; students must receive permission of the instructor to enroll in the second course. Fall: Sec 1, L. Van Clief-Stefanon; sec 2, M. McCoy; spring: K. McClane and J. Lennon.

Intended for those writers who have already gained a basic mastery of technique. Although ENGL 480 is not a prerequisite for ENGL 481, students normally enroll for both semesters and should be capable of a major project—a collection of stories or poems, a group of personal essays, or perhaps a novel—to be completed by the end of the second semester. Seminars are used for discussion of the students' manuscripts and published

works that individual members have found of exceptional value.

Courses for Freshmen and Sophomores

These courses have no prerequisites and are open to freshmen and nonmajors as well as majors and prospective majors.

Introductions to Literary Studies

ENGL 200(2000) Introduction to Criticism and Theory (LA)

Fall. 4 credits. S. Mohanty.

This is an introductory course that explores some of the key concepts and methods used in literary studies. Focusing on a few literary texts and some drawn from popular culture, we will try to answer such basic questions as: what does it mean to read and analyze texts well? What roles do history and social ideology play in our readings? What, after all, is "art"?

We will also focus on literary and cultural theory, examining both contemporary questions and historical ones. Readings on aesthetics and critical theory from a variety of cultural traditions will be analyzed—from classical writings on beauty and the nature of art to contemporary works that focus on such issues as gender, race, and sexuality.

ENGL 201–202(2010–2020) The English Literary Tradition # (LA)

201, fall; 202, spring. 4 credits each semester. ENGL 201, not a prerequisite for 202, may be used as one of the three pre-1800 courses required of English majors. D. Fried.

201 (fall): An introduction to the study of English literature, examining its historical development and achievements from its beginnings to the middle of the 17th century. Readings will include *Beowulf* and *Sir Gawain and the Green Knight* in modern translation, selections from Chaucer's *Canterbury Tales* and the writings of medieval women, Book I of Spenser's *Faerie Queene*, Elizabethan sonnets, a play by Shakespeare, poems by Donne, Marvell, and Herbert, and selections from Milton's *Paradise Lost*. Lectures are supplemented by small discussion groups once a week.

202 (spring): An introductory survey of English literature from the late 17th century to the 20th century. We begin with the satires of the Restoration and 18th century including Pope's mock epic *The Rape of the Lock*, Swift's *Gulliver's Travels*, and selections from Johnson's poems and criticism. Selections from the Romantic era will include Blake's *Songs of Innocence and Songs of Experience*, poems and prose of Wordsworth, Coleridge, Shelley, and Keats; and a novel by Jane Austen. We will read poetry and prose from the Victorian era by Tennyson, Browning, Arnold, and Hopkins, plus Wilde's play *The Importance of Being Earnest*, and approach early 20th-century literature through Hardy, Forster, and Eliot. Lectures will be supplemented by small discussion groups once a week.

ENGL 203(2030) Introduction to American Literatures: Writing America, from Colonialism to the "American Renaissance" (also AM ST 206(2030)) (LA)

Fall. 4 credits. A. Galloway.

This course may be used as one of the three pre-1800 courses required of English majors.

This class will explore some of the writing from and about America, from pre-colonial times until about 1850. We will start with writings that defined the terms in which British thinkers and American colonists understood the "New World" and its political possibilities, such as Thomas Paine, Benjamin Franklin and Thomas Jefferson, and some early Native American poetry and stories. Then we will spend the bulk of the term with selected writers from the 17th century into the "American Renaissance": Jonathan Edwards, Charles Brockden Brown, Ralph Waldo Emerson, Margaret Fuller, Nathaniel Hawthorne, Frederick Douglass, Herman Melville, Edgar Allen Poe, Emily Dickinson, and Walt Whitman.

ENGL 204(2040) Introduction to American Literatures: The Making of America: Reconstruction to the Present (also AM ST 207(2040)) (LA)

Spring. 4 credits. J. Caraccio.

As the Civil War came to an end, the United States attempted to come to terms with its racialized past. America continued to struggle to identify itself broadly as a democratic nation and specifically as a "melting pot" of individuals fighting for their civil and sovereign rights. We will examine texts that exemplify how American writers articulated their desire for citizenship as well as for the right to act out a politics of difference. To this end, we will read texts that engage in a conversation about these issues, such as those authored by Native Americans, African Americans, Asian Americans, Latino/a Americans, and Anglo-Americans. This course will blend lecture with discussion and include both short and long writing assignments.

[ENGL 205(2050) Introduction to World Literatures in English (LA)]

Spring. 4 credits. Next offered 2007–2008. E. DeLoughrey.]

[ENGL 206(2060) The Great American Cornell Novel (also AM ST 219(2060)) (LA)]

Fall. 4 credits. Next offered 2007–2008. M. Hite.]

ENGL 207(2070) Introduction to Modern Poetry (LA)

Spring. 4 credits. R. Gilbert.

This course will survey English-language poetry written in the 20th century, with primary emphasis on American poets. We will consider poems written in traditional verse as well as in innovative forms; short poems and long poems; poems that are relatively easy to read and poems that are extremely challenging; poems that deal with issues of war, race, gender, sex, science, and other topics; important poetic movements like Imagism and the Confessional mode. Poets to be studied may include Yeats, Frost, Pound, H.D., Williams, Stevens, Stein, Eliot, Hughes, Cullen, Bishop, Brooks, Berryman, Ginsberg, Ammons, Plath, Rich, and Fulton. Students will submit weekly reading responses, some of which may take the form of original poems. Two essays and a final exam.

ENGL 208(2080) Shakespeare and the 20th Century (LA)

Spring. 4 credits. S. Davis.

This course may be used as one of the three pre-1800 courses required of English majors. What can we learn about Shakespeare's plays from their reception in the 20th and 21st centuries? What can we learn about modern cultures from their appropriations of these

texts? We will study four or five plays and their adaptations in film and theater and explore the uses made of Shakespeare in education, advertising, and public culture and by the "Shakespeare industry" itself. For spring 2007, tentatively: *Titus Andronicus*, *Twelfth Night*, *Merchant of Venice*, *Hamlet*, and *Macbeth*, together with Tom Stoppard's *Dogg's Hamlet*, *Caboot's Macbeth*, and films directed by Michael Radford, Trevor Nunn, Julie Taymor, Grigori Kozintsev, Michael Almereyda, and Akira Kurosawa. See <http://instruct1.cit.cornell.edu/~sad4/208/>.

[ENGL 209(2090) Introduction to Cultural Studies (CA)]

4 credits. Next offered 2007-2008.]

[ENGL 227(2270) Shakespeare (also THETR 277(2770)) # (LA)]

Fall. 4 credits. May be used as one of the three pre-1800 courses required of English majors. B. Correll.

A lecture and discussion course that offers students a survey of representative Shakespearean comedies, tragedies, and history plays. Our study will include attention to forms, themes, and historical contexts, including history of the early modern English theater. We read nine plays, including *The Merchant of Venice*, *Twelfth Night*, *The Tempest*, *Othello*, *King Lear*, *Richard II*, *Henry IV Part One*, and *Henry V*.

[ENGL 295(2950) The Essay in English # (LA)]

4 credits. Next offered 2007-2008.]

Major Genres and Areas

[ENGL 244(2440) SSP: Studies in Irish Culture (LA)]

Fall. 4 credits. Limited to 15 students. Next offered 2007-2008. S. Siegel.]

[ENGL 251(2510) 20th-Century Women Writers (also AM ST 252(2510), FGSS 251(2510)) (LA)]

Fall. 4 credits. Next offered 2007-2008. E. DeLoughrey.]

[ENGL 252(2520) SSP: Late 20th-Century Women Writers and Visual Culture (LA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007-2008. S. Samuels.]

[ENGL 255(2550) African Literature @ (LA)]

Fall. 4 credits. Next offered 2007-2008. B. Jeyifo.]

[ENGL 260(2600) Introduction to American Indian Literatures in the United States (also AM ST 260(2600)) (LA)]

Spring. 4 credits. Next offered 2007-2008. E. Cheyfitz.]

[ENGL 262(2620) Asian American Literature (also AAS 262, AM ST 262(2620)) (LA)]

4 credits. Next offered 2007-2008. S. Wong.]

[ENGL 273(2730) Children's Literature (LA)]

Spring. 4 credits. Next offered 2007-2008. J. Adams.]

[ENGL 274(2740) Scottish Literature # (LA)]

Fall. 4 credits; may be taken for 3 or 4 credits; those choosing 4 credits will complete an additional writing project. May be used as one of the three pre-1800 courses required of English majors. H. Shaw and T. Hill.

Although Scotland, which was long a separate nation, is now politically united with England, it preserves its distinctiveness. This course provides an introduction to Scottish literature, with special emphasis on the medieval period and the 18th through the 20th centuries. The course should appeal to those who wish to learn about their Scottish heritage, and also those who simply wish to encounter a remarkable national culture and the literature it has produced. Some of the texts will be read in Scots, but no familiarity with Scots or earlier English is presumed. We welcome readers of literature who are not English majors.

[ENGL 276(2760) Desire (also COM L 276(2760), FGSS 276(2760), THETR 278(2780)) (LA)]

Spring. 4 credits. Letter grades only. E. Hanson.

"Language is a skin," the critic Roland Barthes once wrote: "I rub my language against the other. It is as if I had words instead of fingers, or fingers at the tip of my words. My language trembles with desire." Sexual desire has a history, even a literary history, which we will examine through an introductory survey of European dramatic literature from Plato and Aristophanes to Jean Genet and Caryl Churchill, as well as a survey of classic readings in Western sexual theory from the Ancient Greeks through Freud and Foucault to contemporary feminism and queer theory. Topics for discussion will include pederasty, mysticism, hysteria, sadomasochism, pornography, cybersex, and other performative pleasures.

[ENGL 277(2770) Literatures of the Black Atlantic: Reading the Contemporary (LA)]

Spring. 4 credits. D. Woubshet.

This course will examine contemporary African and African Diasporic literatures. Through aesthetic, generic, and contextual approaches we will consider how relationships in the black Atlantic world (Africa, the Caribbean, and the United States) are reconfiguring themselves. We will ask: what are the recurring themes within such literature? Upon what history and what fiction is such a world brought together? How is globalization fueling the intercourse between the various black Atlantic worlds? We will consider literature across genres to bring out some of the central motifs of our contemporary moment: geography, nationality, race, class, gender and sexual difference. Readings may include: Morrison's *Tar Baby*; Kincaid's *A Small Place*; Walcott's "The Antilles: the Fragments of Epic Memory"; and Baldwin's *Just Above My Head*.

[ENGL 293(2930) Survey in African American Literature (also AM ST 293(2650)) (LA)]

Fall. 4 credits. The course is designed for majors but will be open to all interested students. Next offered 2007-2008. H. Spillers.]

Special Topics

[ENGL 210(2100) Medieval Romance: Voyage to the Otherworld # (LA)]

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. Next offered 2007-2008. T. Hill.]

[ENGL 217(2170) History of the English Language (also LING 217(2170))]

Fall. 4 credits. W. Harbert.

For description, see LING 217.

[ENGL 263(2630) Studies in Film Analysis: Hitchcock (also FILM 265(2650)) (LA)]

Fall. 4 credits. Limited to 20 students.

L. Bogel.

Through detailed analysis of at least 15 of Hitchcock's major films—from British silents such as *Blackmail* and the British talkies of the 30s (*The Thirty-Nine Steps*) to the early 40s work in Hollywood (*Spellbound*, *Notorious*), and major American films of his late period (*Rear Window*, *Psycho*) we will consider Hitchcock as a major technical and stylistic innovator in the history of cinema. As texts for psychoanalytic and feminist approaches to study, his films invite questions about film language, the ethics of spectatorship, and the nature of desire and sexuality. Frequent short essays and viewing exercises encourage students to engage through their writing the course's critical concerns. Regular required screenings after class.

[ENGL 264(2640) The Private I and the Public Eye: Exploring Latino/a Identity in Poetry, Fiction, and Non-Fiction (also LSP 264(2640))]

Fall. 4 credits. H. Viramontes.

For the most part literary theories have assumed that autobiography (the private) and the political (the public) can be considered as separate or irreconcilable domains. This course, however, will explore ways that private expression can be used to investigate the political. Through studies of personal essays, poetry, and fiction, we'll read and discuss how Latino/a writers succeed in questioning or challenging boundary lines between public and private. We'll ask how they aspire, through their excavation of their own social location, to inspire their work. Using various genres introduced in class, students will have the opportunity to explore and ground their own understanding of identities. Authors may include: Norma Cantú, Alicia Gaspar de Alba, Minnie Bruce Pratt, Judith Ortiz Cofer, Julia Alvarez, Gustavo Fierme, Elias Miguel Munoz, Luis Rodriguez.

[ENGL 268(2680) Culture and Politics of the 1960s (also AM ST 268(2680)) (CA)]

Fall. 4 credits. P. Sawyer.

For many people, the sixties were a time of revolutionary hopefulness, when the civil rights movement, the Cold War and the Vietnam War stimulated impassioned critiques and alternative experiments in living that changed American society forever. What can the experiences of young "boomers" and others who lived through the sixties teach a later generation living through similar times? To answer this and other questions, the course combines an historical overview with the close reading of texts, concentrating on the topics of racial justice, the Vietnam War, the counterculture, the New Left, the women's movement, and the movement for gay and lesbian rights. Texts will include

The Autobiography of Malcolm X, Dispatches, Slaughterhouse-5, music of Dylan and Joplin, speeches of King, films, manifestos, poetry, and music.

ENGL 292(2920) Introduction to Visual Studies (also VISST 200[2000]) (LA)

Spring. 4 credits. T. Murray.
For description, see VISST 200.

[ENGL 297(2970) Sophomore Seminar: Sustainable Literature (CA)]

Fall. 4 credits. Next offered 2008–2009.
L. Donaldson.]

Courses for Sophomores, Juniors, and Seniors

Courses at the 300 level are open to sophomores, juniors, and seniors and to others with the permission of the instructor.

ENGL 302(3020) Literature and Theory (also ENGL 602[6020], COM L 302/622[3020/6220]) (LA)

Fall. 4 credits. J. Culler.

Study of issues in contemporary theoretical debates, with particular attention to structuralism, deconstruction, psychoanalysis, and feminism. Readings by Roland Barthes, Judith Butler, Jacques Derrida, Michel Foucault, Barbara Johnson, Jacques Lacan, and others. No previous knowledge of literary theory is assumed.

[ENGL 308(3080) Icelandic Family Sagas # @ (LA)]

Spring. 4 credits. Next offered 2007–2008.
T. Hill.]

[ENGL 310(3100) Old English in Translation # (LA)]

4 credits. Next offered 2007–2008. T. Hill.]

ENGL 311(3110) Old English (also ENGL 611[6110]) # (LA)

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. T. Hill.

The course is intended as an introduction to the Old English language. We will begin with simple prose texts and proceed to poetic texts such as *Maldon*, *The Wanderer*, *The Seafarer* and *The Dream of the Rood*. The primary aim of the course is to learn Old English, but we will discuss the literary issues the texts we cover present. There will be a mid-term and a final exam.

ENGL 312(3120) Beowulf (also ENGL 612[6120]) # (LA)

Spring. 4 credits. Recommended: one semester's study of Old English or equivalent. May be used as one of the three pre-1800 courses required of English majors. S. Zacher.

A close reading of *Beowulf*. Attention is given to relevant archaeological, literary, cultural, and linguistic issues.

[ENGL 316(3160) Beasts, Bodies, and Boundaries # (LA)]

Spring. 4 credits. Next offered 2007–2008.
S. Zacher.]

ENGL 319(3190) Chaucer # (LA)

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. M. Raskolnikov.
Chaucer became known as the "father of English poetry" before he was entirely cold in his grave. Why is what he wrote more than six hundred years ago still riveting for us today? It's not just because he is the

granddaddy of this language and its literature; it's because what he wrote was funny, fierce, thoughtful, political, philosophical and, oh yes, notoriously bawdy. We'll read some of Chaucer's brilliant early work, and then dig into his two greatest achievements: the epic *Troilus and Criseyde*, and *The Canterbury Tales*, his oft-censored panorama of medieval English life. Chaucer will be read in Middle English, which will prove surprisingly easy and pleasant.

ENGL 320(3200) Renaissance Literature (also COM L 356[3560])

Spring. 4 credits. W. Kennedy.

For description, see COM L 362.

ENGL 321(3210) Spenser and Malory # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. Informal lecture and discussion. C. Kaske.

Paired selections covering about half of Malory's *Morte d'Arthur* and half of Spenser's *Faerie Queene*. The French Prose Arthurian Cycle, Chretien's romances, *Sir Gauvain and the Green Knight*, and some of Spenser's minor poems are mentioned occasionally as background. Comparisons assess possible literary influence, the distinctive vision, style, and narrative technique of each author as a writer of romance, and the development of Arthurian romance from the Middle Ages to the Renaissance.

[ENGL 327(3270) Shakespeare: Staging Women # (LA)]

Fall. 4 credits. Next offered 2007–2008.]

[ENGL 328(3280) The Bible in Literary and Cultural Perspective # (LA)]

Fall. 4 credits. Next offered 2007–2008.
L. Donaldson.]

ENGL 329(3290) Milton # (LA)

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. R. Kalas.

An introduction to the poetry and prose of John Milton in light of the political, social, and religious upheavals of the 17th century. Rather than dividing the poetry from the prose, this course will foreground the integration of poetic and polemical concerns in Milton's work. Readings will include selected short poems, *Comus*, *Samson Agonistes*, *Paradise Regained*, all of *Paradise Lost*, *Areopagitica*, *The Doctrine and Discipline of Divorce*, and excerpts from Milton's other prose works.

ENGL 330(3300) Restoration and 18th-Century Literature # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. F. Bogel.

Close reading of texts in a variety of genres (poetry, fiction, drama, autobiography) will be guided by such topics as: the nature of satire, irony, and mock-forms; the languages of the ridiculous and the sublime; the politics of gender and sexuality; the authority and fallibility of human knowledge; connections among melancholy, madness, and imagination. Works by such writers as Rochester, Behn, Finch, Dryden, Swift, Gay, Defoe, Johnson, Boswell, Sterne, and Cowper.

[ENGL 333(3330) The 18th-Century English Novel # (LA)]

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. Next offered 2007–2008. F. Bogel.]

ENGL 335(3350) Modern Western Drama, Modern Western Theater: Theory and Practice (also THETR 335/COM L 335/VISST 335[3350])

Fall. 4 credits. N. Salvato.

For description, see THETR 335.

ENGL 340(3400) English Romantic Period # (LA)

Fall. 4 credits. This course may *not* be used as one of the pre-1800 courses required of English majors. R. Parker.

Readings from early 1790s to early 1820s writers—among them Blake, Wordsworth, Wollstonecraft, Coleridge, Byron, Hazlitt, Mary Shelley, Percy Shelley, and Keats—with major emphasis on poetry but with substantial attention to prose fiction, drama, letters, and political and literary essays. The course is concerned with close reading of formal experiments in narrative, lyric, and dramatic representation and with analysis of political and cultural issues and contexts in an age of national reform and international revolution and conflict.

ENGL 345(3450) Victorian Controversies # (LA)

Fall. 4 credits. S. Siegel.

This course explores the questions that men and women in England and Ireland asked about themselves and their time: Was their century marked by progress or decline? Would machines degrade or ennoble workers? Did aesthetic experience complement or compete with religious doctrine? Were art and science dependent upon or opposed to each other? Should all forms of expression be permitted or should certain forms be censored? Should the colonies be permitted to rule themselves or remain dependent on England? Would prestige be gained if institutions of higher learning awarded degrees to women? Was "manliness" revealed through "character" or through "behavior"? Authors include Arnold, Barrett Browning, Carlyle, Gregory, Hyde, Hoyer, Mill, Morris, Parnell, Pater, Ruskin, Wilde, and Yeats.

ENGL 348(3480) Studies in Women's Literature: The Feminist Literary Tradition (also FGSS 348[3480]) (LA)

Spring. 4 credits. K. McCullough.

Is there a feminist literary tradition and if so what might it look like? In this class we will examine a range of texts, primarily but not exclusively fiction, texts that explore questions of female subjectivity and creativity. What issues have been most pressing for feminist writers? What political questions most vexing? We will read primarily British and U.S. writers and will examine what use they make of both canonical and experimental literary forms. To what extent, that is, does the need to tell a new story force or enable a writer to develop a new form in which to write?

ENGL 349(3490) Shakespeare and Europe (also COM L 348[3480]) (LA)

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. W. Kennedy.

For description, see COM L 348.

ENGL 350(3500) The Modern Tradition (LA)

Spring. 4 credits. D. Schwarz.

Critical study of major works by Hardy, Conrad, Lawrence, Joyce, Woolf, Eliot, Yeats, Hopkins, Wilde, Wallace Stevens, and others. While the emphasis will be on close reading of individual texts, we shall place the authors and works within the context of literary, political, cultural, and intellectual history. The course will seek to define the development of literary modernism (mostly but not exclusively in England), and relate literary modernism in England to that in Europe and America as well as to other intellectual developments. We shall be especially interested in the relationship between modern literature and modern painting and sculpture; on occasion, we shall look at slides. Within the course material, students will be able to select the topics on which they write essays.

[ENGL 353(3530) The Modern Indian Novel @ (LA)]

4 credits. Next offered 2007-2008.]

ENGL 354(3540) The British Modernist Novel (LA)

Fall. 4 credits. D. Mao.

In the first years of the 20th century, British and Irish writers were able to wrest out of the chaos of their times some of the most inventive, troubling, and beautiful novels ever composed in English. This course considers not only how the British and Irish modernist novel broke new ground in literary form, but also how and why it said things about art, love, politics, empire, terror, imagination, and desire not said before and perhaps never said so well again. Authors studied may be drawn from among Woolf, Conrad, Ford, Joyce, Lawrence, Forster, Bowen, Beckett, Wyndham Lewis, and Rebecca West.

ENGL 355(3550) Decadence (also COM L/FGSS 355(3550)) (LA)

Fall. 4 credits. E. Hanson.

"My existence is a scandal," Oscar Wilde once wrote, summing up in an epigram the effect of his carefully cultivated style of perversity and paradox. Through their valorization of aestheticism and all that was considered artificial, unnatural, or perverse, the so-called "Decadent" writers of the late-19th century sought to free the pleasures of beauty, spirituality, and sexual desire from their more conventional ethical moorings. We will discuss literary and visual texts by Charles Baudelaire, Edgar Allan Poe, J.-K. Huysmans, Leopold von Sacher-Masoch, A. C. Swinburne, Walter Pater, René Vivien, James McNeill Whistler, and Aubrey Beardsley, with a particular focus on Oscar Wilde. Students may read French and German texts in the original or in English translation.

[ENGL 361(3610) Studies in the Formation of U.S. Literature: Emerson to Melville (also AM ST 361(3610)) # (LA)]

Spring. 4 credits. Next offered 2007-2008. D. Fried.]

ENGL 362(3620) Studies in U.S. Literature after 1850: Reconstructing America (also AM ST 364(3640)) (LA)

Fall. 4 credits. N. Waligora-Davis.

Taking up his turn of the century argument that the problem of the 20th century will be the problem of the color-line, this course reads W.E.B. DuBois' articulation backwards and forwards, tracing shifting representations

of race and American identity from the Civil War through the beginning of WWII. Topics range from abolitionism to race science, from circus "freaks" to "diseased" immigrants, from negrophobia to negrophilia. This course studies constitutional, immigration, marriage, and seduction law; World Fairs and circuses; eugenics and baby contests; boxing and baseball, jazz and blues, and lynchings and chain gangs. Our readings include but will not be limited to Stowe, Delany, James, Fitzgerald, Stoddard, DuBois, Faulkner, Larsen, Lee, *The Jazz Singer*, *Flying Down to Rio*, *King Kong*, and *Legends of the Fall*.

[ENGL 363(3630) Studies in U.S. Literature Before 1950: The American 1920s—Literature and Culture (LA)]

4 credits. Next offered 2007-2008.]

ENGL 364(3640) Studies in American Literature After 1950: American Literature, the 1980s (also AM ST 373(3730)) (LA)

Fall. 4 credits. D. Woubshet.

This course will explore literature of the 1980s against the broader cultural and historical landscape of 80s America. In many ways, we live in the immediate shadow of the 1980s, but our slight remove from the decade affords us a chance to look back at the literature and culture of the 80s with some distance (and familiarity). In this course, we will give particular emphasis to the following themes: postmodernism, the blurring of literary genres, the blurring of taste (high vs. low culture), the emphasis on (racial, gender, and sexual) difference, pop culture, and history. Authors may include: Don DeLillo, Kurt Vonnegut, Maxine Hong Kingston, Thomas Pynchon, Toni Morrison, Norman Mailer, Ishmael Reed, Audre Lorde, and Gloria Anzaldúa.

[ENGL 365(3650) American Literature Since 1945 (also AM ST 365(3650)) (LA)]

Fall. 4 credits. Next offered 2007-2008. B. Maxwell.]

ENGL 366(3660) Studies in U.S. Fiction Before 1900: The 19th-Century American Novel (also AM ST 366(3660)) # (LA)

Spring. 4 credits. S. Samuels.

Reading carefully some of the most fascinating novelists in the 19th-century United States, we examine patterns of social and political awareness in these writers. In particular, we think about the relations among stylistic concerns in fiction and the construction of identities formed by national, racial, gendered, and sexual allegiances. Writers may include Mark Twain, Charles Chesnut, Nathaniel Hawthorne, Henry James, Edith Wharton, Pauline Hopkins, Harriet Wilson, Herman Melville, E.D.E.N. Southworth, and Stephen Crane.

ENGL 367(3670) Studies in U.S. Fiction After 1900: The Literature of the Stranger (also AM ST 367(3670)) (LA)

Spring. 4 credits. S. Wong.

What is a stranger? How is the category of the "stranger" to be marked off from, for example, that of the foreigner, outsider, refugee, exile, wanderer, pariah, or barbarian? Who is a stranger? What is the social function of the stranger? How has the idea of the "stranger" shaped, or been shaped by, 20th-century U.S. fiction? What can we learn about the stranger as sociological type and as literary type? These are some of the questions that will serve as

points of departure for our discussions of the literature. We'll be reading widely across the landscape of 20th-century U.S. fiction. We'll also be reading a number of articles that take up the idea of the stranger from a variety of disciplinary viewpoints.

[ENGL 368(3680) Faulkner (LA)]

4 credits. Next offered 2007-2008. H. Spillers.]

ENGL 369(3690) Fast-Talking Dames and Sad Ladies: 1940s and Now (also FILM 369(3690), FGSS 369(3690)) (LA)

Spring. 4 credits. Limited to 15 students. Students must be able to attend Mon. and/or Tues. late-afternoon screenings. Film fee: \$20. L. Bogel.

Focusing on sassy or subdued heroines of Hollywood's 1940s films and current films, this seminar works to define romantic comedy and melodrama as genres; as vehicles for female stars; as ways of viewing the world. Psychoanalytic and feminist analyses of these films will help us pose questions about gender and culture, about gendered spectatorship, about Hollywood's changing constructions of "woman," the "maternal," and the "feminine," and about representations of desire, pleasure, fantasy, and ideology. Required twice-weekly screenings of such films as *Gilda*, *The Lady Eve*, *Notorious*, *The Women*, *The Philadelphia Story*, *His Girl Friday*, *Mrs. Dalloway*, *The Hours*, *First Wives' Club*, *All About My Mother*, *Silence of the Lambs*, and *Far from Heaven*.

ENGL 370(3700) The 19th-Century Novel # (LA)

Spring. 4 credits. J. Adams.

A survey of representative works by major British novelists from Austen to Hardy. These works exemplify the great variety of "realism" in the novel, developing a range of distinctive styles and narrative structures in efforts to represent the interplay of personal identity and society at large. They are particularly engaged by the conflicts between traditional social forms (class, gender, marriage) and new forms of mobility and self-determination that emerge within the most dynamic economy the world had yet seen. We'll be especially interested in the novel's preoccupation with domestic life, and reshaping of the familiar "marriage plot" in a world of great social and sexual anxiety. In short: love and money. The readings will include works by Austen, Thackeray, Dickens, C. Brontë, Trollope, George Eliot, and Hardy.

[ENGL 372(3720) Medieval and Renaissance Drama (also THETR 372(3720)) # (LA)]

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. Next offered 2007-2008. M. Raskolnikov.]

[ENGL 373(3730) English Drama from 1700 to the Present # (LA)]

Spring. 4 credits. Next offered 2008-2009.]

ENGL 374(3740) Slavery in 20th-Century Film and Fiction (also AM ST 374(3681)) (LA)

Spring. 4 credits. N. Waligora-Davis.

This course explores 20th-century preoccupations and reconstructions of slavery, examining the ways slavery continues to define and impact sexuality, racial identities and their popular representations, our sense of public and private spaces, legal discourse, and our national identity. What does it mean

to be a black or white man or woman in America? Who does law, history, and society concede as legitimate witness? How should we craft our histories? Who is a subject of, and who is subjected to law? How are privacy interests diffused against social interests? Our readings will place in close proximity not only historical writings on slavery (slave history and slave narratives) and these 20th-century revisionist slave stories, but slave law and contemporary immigration, property, reproduction, criminal, and privacy legislation.

ENGL 375(3750) Studies in Drama and Theatre: "Enemies, A 'Love' Story?" (also THETR 375(3750)) (LA)

Fall. 4 credits. P. Lorenz.

The birth of modern drama has been linked to the staging of interpersonal relationships, and in particular to relations of conflict, struggle, and hostility. Very often the hero of drama is at odds with an enemy. But what is an enemy? Is he personal or political, racial or religious? Is he a he, and if so, is there any escaping him? The course focuses on the figure of the enemy in plays by Shakespeare, Marlowe, Kyd, Brecht, Ibsen, Bruckner, Miller, and Wilson, while considering various conceptual models of enmity, from the Bible through Marx and Freud. How are these models responded to or resisted in drama from the Renaissance through the 20th century?

[ENGL 378(3780) American Poetry Since 1950 (also AM ST 372(3780)) (LA)]

Spring. 4 credits. Next offered 2008–2009. R. Gilbert.]

ENGL 379(3790) Reading Nabokov (also RUSSL 385(3850)) (LA)

Fall. 4 credits. G. Shapiro.

For description, see RUSSL 385.

ENGL 381(3810) Reading as Writing (LA)

See complete course description in section headed "Expository Writing."

ENGL 382–383(3820–3830) Narrative Writing (LA)

See complete course description in section headed "Creative Writing."

ENGL 384–385(3840–3850) Verse Writing (LA)

See complete course description in section headed "Creative Writing."

ENGL 386(3860) Philosophic Fictions (LA)

See complete course description in section headed "Expository Writing."

ENGL 387(3870) Autobiography: Theory and Practice (LA)

See complete course description in section headed "Expository Writing."

ENGL 388(3880) The Art of the Essay (LA)

See complete course description in section headed "Expository Writing."

[ENGL 390(3900) Autobiography: The Politics of History, Memory, and Identity (LA)]

Spring. 4 credits. Next offered 2008–2009. J. Carlacio.]

ENGL 391(3910) Studies in African American Literature (also AM ST 387(3910)) (LA)

Fall. 4 credits. H. Spillers.

This course offers an introduction to the study of African American literature and culture; open to English majors, as well as any student

interested in the subject, the course adopts its readings from a range of genres and writers from the early eras of the literature to the contemporary period.

[ENGL 395(3950) Video: Art, Theory, and Politics (also FILM 395(3950))]

4 credits. Next offered 2008–2009.

T. Murray.]

[ENGL 396(3960) Introduction to Global Women's Literature @ (LA)]

4 credits. Next offered 2008–2009.

E. DeLoughrey.]

ENGL 397(3970) Policing and Prisons in American Culture (also AM ST 395(3970)) (CA)

Spring. 4 credits. B. Maxwell.

Having attained the highest number of incarcerated persons of any nation on earth, while subjecting the populace to ordeals marked by the names Rodney King, Abner Louima, and Amadou Diallo, United States regimes of policing and imprisonment compel historical and critical attention. This course considers policing and imprisonment in United States culture, stressing prisoners' writing, song, raps, slang, and graphic art. In addition to work by imprisoned people, readings will draw on carceral theory, activist documentation, and the history of criminal justice. Finally, we will consider questions raised by non-criminal confinement in U.S. history: slavery, indentured servitude, the reservation system for indigenous peoples, prisoners of war in the Civil War, the wartime internment of Japanese Americans, and carceral and punitive operations of the former Immigration and Naturalization Service, now part of the Department of Homeland Security.

ENGL 398(3980) Latino/a Popular Culture (also AM ST 396(3981), LSP 398(3980)) (CA)

Spring. 4 credits. U.S. Latino/a history is strongly recommended as a prerequisite, but not required. M. P. Brady.

This course will explore Latino/a cultural work ranging from 'zines to comic books, architecture to film, music to sculpture, musicals to spoken word, theater to internet sites. We will consider how this work emerges in the context of U.S. engagements with Latin America and in the context of struggles for social and economic equality among ethnoracial groups in the United States. We will consider therefore the production of stereotypes (particularly in the 19th century) and the ongoing efforts of contemporary artists to dispel such stereotypes, to work along side them and to rework them. We will also consider the relationship between cultural production, representation, and public policy. U.S. Latino/a history is strongly recommended as a prerequisite, but not required.

Courses for Advanced Undergraduates

Courses at the 400 level are open to juniors and seniors and to others by permission of instructor unless other prerequisites are noted.

[ENGL 402(4020) Literature as Moral Inquiry (KCM)]

Spring. 4 credits. Next offered 2008–2009.

S. Mohanty.]

ENGL 403(4030) Advanced Seminar in Poetry: Studies in American Poetry, 1955–1980 (also AM ST 403(4030)) (LA)

Fall. 4 credits. R. Gilbert.

The period between 1955 and 1980 was an especially exciting one in American poetry, as a younger generation of poets struggled to break away from the high Modernists and establish their own voices. This course will explore the wide range of styles and projects that emerge during this period. We'll focus on important individual books of poetry, beginning with two seminal volumes: Allen Ginsberg's *Howl* (1956) and Robert Lowell's *Life Studies* (1959). Other poets to be studied may include John Berryman, Gwendolyn Brooks, Elizabeth Bishop, Robert Duncan, Robert Creeley, Frank O'Hara, James Wright, A. R. Ammons, John Ashbery, James Merrill, W. S. Merwin, Adrienne Rich, Gary Snyder, Sylvia Plath, and Audre Lorde. In-class presentations will focus on the critical reception of individual volumes. Three essays.

[ENGL 404(4040) Paleography, Bibliography, and Reception History (also ENGL 604(6040)) # (LA)]

Spring. 4 credits. Next offered 2008–2009.

A. Galloway.]

[ENGL 405(4050) The Politics of Contemporary Criticism (LA)]

Fall. 4 credits. Next offered 2008–2009.

S. Mohanty.]

ENGL 408(4080) Society for the Humanities

Spring. 4 credits.

Sec 1 Modernization and Fiction. A. Hoberek. For description, see S HUM 421.

Sec 2 Caribbean Popular Literature.

B. Edmondson.

For description, see S HUM 423.

[ENGL 413(4130) Middle English (also ENGL 613(6130)) # (LA)]

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. Next offered 2008–2009. T. Hill.]

ENGL 414(4140) Bodies of the Middle Ages: Embodiment, Incarnation, Performance (also FGSS 414(4140)) # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors.

M. Raskolnikov.

How can the sort of bodies (female, heroic, monstrous, martyred and/or divine) found in medieval works represent, or fail to represent, the "real" of lived experience? To study the Middle Ages is to study the writings of people centuries dead. Reaching back in time, we find disembodied words. Yet these words speak to us about the very stuff of embodied life: love, sex, hunger, dirt, death, decay. This course is designed to expose students to a wide range of medieval genres and authors (like a "Middle English Literature survey"), and to an array of contemporary critical methodologies for considering the meaning of life in a body then and now.

ENGL 419(4190) The Old English Laws and Their Politico-Cultural Context (also ENGL 609(6090), HIST 469/669(4691/6691))

Fall. 4 credits. P. Hyams and T. Hill.

For description, see HIST 469.

ENGL 421(4210) Advanced Seminar in the Renaissance: Literature, Science, and Renaissance Curiosities

Fall. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. J. Mann.

Francis Bacon, the first philosopher of English science, vowed "to trust nothing but on the faith of my eyes." Bacon's declaration became a central tenet of philosophical inquiry during the 17th century, as gentlemen began to collect specimens, dissect bodies, and survey the physical universe. This course will explore how the methods of the new experimental "science" reverberated in—and were challenged by—literary productions in the age of Shakespeare and Milton. We will also consider the representation of figures subject to the developing scientific gaze: curiosities such as the hermaphrodite, the Amazon, and the African. Our syllabus will include works of imaginative literature (Golding, Shakespeare, Beaumont, Donne, Wroth, Milton) as well as medical texts and works of natural philosophy (Paré, Duval, Bacon, Harvey, Cavendish).

ENGL 422(4220) Renaissance "Traffic" # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. R. Kalas.

This course looks at the various forms of traffic and exchange—in words, books, goods, and persons—that shaped the literary culture of the Renaissance in Britain. How did writers respond to new modes of mercantile exchange; new forms of commercial theater and print culture; and new ideas about the transmission of property? And what is the role of literary innovation in these kinds of social and historical transformations? We'll be asking, ultimately, how a notion of literary traffic might refine our understanding of the foundations of transatlantic Anglo-American culture. Readings will include plays by Shakespeare, Massinger, and Jonson; Marlowe's *Hero and Leander*; Milton's *Samson Agonistes*; and other poems by Donne, Marvell, and Isabella Whitney; and prose selections from Bacon, Bradford, Rowlandson, and Coryat's *Cruities*.

ENGL 423(4230) Renaissance Lyric # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. B. Correll.

This course is about Renaissance poetry and the issues of studying it, including forms like sonnets and psalms, techniques, influences, cultural contexts. Reading covers major authors such as Surrey, Wyatt, Sidney, Spenser, Shakespeare, and Donne, and others, including women writers, who also participated in developing early modern poetry. We look at rhetoric handbooks, debates on poetry, and important scholarship. While the topic of 16th-century lyric is historically specific, this seminar is aimed at anyone with an interest in lyric poetry, regardless of background or preparation, willing to work collectively to talk about lyric, interested in what might be at stake in reading early modern lyric.

ENGL 428(4280) Problem Poems: Close Reading and Critical Debate # (LA)

Spring. 4 credits. This course may be used as one of the three pre-1800 courses required of English majors. F. Bogel.

A number of English and American poems have generated long-standing—sometimes dramatic—controversy, much of it still unresolved. We'll study closely a variety of these poems and their "problems," paying attention to the texts, to the disagreements, and to what criticism can tell us about how those disagreements have been produced and addressed. What can such critical controversy tell us about poetic meaning, or critical authority? Some supplementary readings in criticism and theory will be made available. Poems will be drawn from a wide range of authors and periods. Authors may include Shakespeare, Marvell, Rochester, Swift, Gray, Wordsworth, Keats, Robert Browning, Dickinson, Christina Rossetti, Lawrence, Millay, and Roethke. This is an appropriate course for anyone interested in poetry and different ways of reading it.

[ENGL 429(4290) Adam's Rib and Other Divine Signs: Reading Biblical Narrative (also RELST 429[4290]) # (LA)]

Spring. 4 credits. Next offered 2008–2009. L. Donaldson.]

ENGL 430(4300) Topics in American Studies (also AM ST 430[4303], AAS 430[4301], HIST 448[4480])

Spring. 4 credits. S. Wong.
The Rabinor Seminar. For description, see AM ST 430.

ENGL 431(4310) Of Machines and Men: Gender, Technology, and Literature 1880–1940

Spring. 4 credits. K. Biers.

This course examines the close relationship between humans and machines in British and American literature from the fin de siècle to World War II. Reading various genres—including novels, short stories and essays—we will explore how the machine became a highly gendered object of fear, fascination, and fantasy in the context of industrialization and urbanization; mass culture; war; changing gender roles; and new theories of perception, consciousness, sexuality, and the body. Our main focus will be how machines influenced representational practices, giving rise to different styles and movements—including realism and modernism—and opening up the possibility for representing distinctly "modern" conceptions of gender and sexuality. Authors may include Stephen Crane, Henry Adams, Bram Stoker, Henry James, Virginia Woolf, Gertrude Stein, Mina Loy, and Wyndham Lewis.

[ENGL 434(4340) Electronic Art and Culture (LA)]

4 credits. Next offered 2007–2008.
T. Murray.]

[ENGL 437(4370) Fiction(s) of Race, Fact(s) of Racism: Perspectives from South African and Afro-American Literatures @ (LA)]

4 credits. Next offered 2008–2009.
B. Jeyifo.]

[ENGL 440(4440) Romantic Drama (also ENGL 644[6440], THETR 440[6444/4400/6440]) (LA)]

Fall. 4 credits. Next offered 2007–2008.
R. Parker.]

[ENGL 443(4430) The Dandy in London and Dublin # (LA)]

Spring. 4 credits. Next offered 2008–2009.
S. Siegel.]

ENGL 444(4441) Text Analysis for Production: How to Get from the Text onto the Stage (also THETR 445[4450], VISST 445[4455])

Fall. 4 credits. B. Levitt.
For description, see THETR 445.

ENGL 446(4660) Comedy and Satire: The 19th Century

Spring. 4 credits. P. Sawyer.
From the sophisticated and witty to the obscene and grotesque, 19th-century English writers confronted their society, aroused their readers, and changed the shape of literature through the forms of mockery and laughter. In sharing the laughter, we'll also explore how comic forms articulate serious concerns—about class and sexual identity, injustice, utopias, love, and death. Topics will include parody, the grotesque, the emergence of urban satire, and the Dickensian comedy of manners. Texts will include *Northanger Abbey*, *Don Juan*, *Vanity Fair*, *Pickwick Papers*, and *The Importance of Being Earnest*; poems by Robert Browning and Christina Rossetti; a comic opera by Gilbert and Sullivan; caricatures and epigrams; and theoretical works by Bakhtin and Frye.

[ENGL 450(4500) History of the Book # (LA)]

Spring. 4 credits. Next offered 2007–2008.
K. Reagan.]

ENGL 452(4520) Wilde and Woolf (LA)

Spring. 4 credits. S. Siegel.
This seminar considers the question of style: what does the word mean; why has it claimed attention; how has it behaved in the work of two authors whose writings among their contemporaries marked distinctive departures? We explore Oscar Wilde and Virginia Woolf as readers of literary and social texts. Along the way, we direct our attention to the implicit expectations brought to the understanding of "Victorians" and "Modernists." Selections are drawn from the full range of Wilde's and Woolf's work. Our principal texts, however, are limited to a few essays by each author.

[ENGL 453(4530) 20th-Century Women Writers of Color (also AAS/FGSS 453[4530]) (LA)]

Fall. 4 credits. Course requirements include presentations, short responses to readings, and a longer research essay. Next offered 2007–2008. S. Wong.]

ENGL 455(4550) Metafiction (also COM L 446[4460])

Fall. 4 credits. W. Cohen.
For description, see COM L 446.

[ENGL 456(4560) Postmodern Novel (LA)]

4 credits. Next offered 2007–2008. M. Hite.]

ENGL 458(4580) Imagining the Holocaust (also COM L 483[4830], GERST 457[4570]) (LA)

Spring. 4 credits. D. Schwarz.
What is the role of the literary imagination in keeping the memory of the Holocaust alive for our culture? We shall examine major and widely read Holocaust narratives that have shaped the way we understand and respond to the Holocaust. We shall begin with first person reminiscences—Wiesel's *Night*, Levi's *Survival at Auschwitz*, and *The Diary of Anne Frank*—before turning to realistic fictions such as Kineally's *Schindler's List* (and Spielberg's film), Kertesz's *Fateless*, Kosinski's *The Painted Bird*, and Ozick's "The Shawl." We shall also read the mythopoeic vision of Schwarz-Bart's

The Last of the Just, the illuminating distortions of Epstein's *King of the Jews*, the Kafkaesque parable of Appelfeld's *Badenheim 1939*, and the fantastic cartoons of Spiegelman's *Maus* books.

[ENGL 460(4601) Riddles of Rhythm (LA)]
Spring. 4 credits. Next offered 2007–2008.
D. Fried.]

[ENGL 462(4620) Senior Seminar in Latina/o Studies: Chicana Feminisms in a Globalizing World (LA)]
Spring. 4 credits. Next offered 2007–2008.
M. Brady.]

[ENGL 465(4650) American Violence (LA)]
Fall. 4 credits. Next offered 2007–2008.
S. Samuels.]

[ENGL 466(4660) James on Film (LA)]
4 credits. Next offered 2007–2008.
D. Fried.]

[ENGL 468(4680) Baldwin and Brooks (LA)]
4 credits. Next offered 2007–2008.
K. McClane.]

[ENGL 470(4700) Senior Seminar in the Novel: Austen and the Psychological Novel (LA)]
Spring. 4 credits. Next offered 2008–2009.
A.-L. François.]

[ENGL 471(4710) Humor in Literature (LA)]
Fall. 4 credits. Next offered 2007–2008.
A. Lurie.]

[ENGL 472(4720) Islands of Globalization (also ENGL 672(6720)) (LA)]
Spring. 4 credits. Next offered 2007–2008.
E. DeLoughrey.]

[ENGL 474(4740) Senior Seminar on Major Authors: Hemingway, Fitzgerald, and Faulkner (LA)]
Spring. 4 credits. Next offered 2007–2008.]

ENGL 475(4750) Senior Seminar in the 20th Century: Narratives of Loss—AIDS
Fall. 4 credits. D. Woubshet.
AIDS is one of the hallmarks of our contemporary world, and the loss endured due to this pandemic has been of epic proportions. In this seminar, we will consider literary and other responses to this cataclysmic event. We will give particular attention to the following questions: How do artists rely on, dilate, or overhaul antecedent conventions to express AIDS loss? What are the insights and limitations of particular stylistic and formal choices? How do artists balance consolation in the face of compounded crises? How are their creative responses shaping our interpretation of the history and memory of AIDS? Authors may include: Melvin Dixon, Tony Kushner, Paul Monette, Jamaica Kincaid, Susan Sontag, Essex Hemphill, Marlon Riggs, Larry Kramer, Thomas Glave, and Michael Cunningham.

[ENGL 476(4760) Global Women's Literature (LA)]
Spring. 4 credits. Next offered 2007–2008.
E. DeLoughrey.]

ENGL 477(4600) Melville # (LA)
Fall. 4 credits. B. Maxwell.
An American whose life and writing ranged over the globe, Herman Melville (in the estimation of C.L.R. James) "saw the tendency of things." Our study of his fiction, journals, and poetry will turn on some of those things

of modernity that most obsessively engaged Melville's representational and critical capacities: slavery; capitalism; illegitimate authority; exterminationist policy directed against American Indians; orphanhood and homelessness; imperialism; the attempted occultation of women; the shifting terrain of male comradeship; and the ambivalent resort to religion. We will be interested in testing the premise that Melville charted the faultlines of his world with an unorthodox critical acuity unparalleled in United States literature.

[ENGL 478(4780) Intersections in Lesbian Fiction (also AM ST 468(4780), FGSS 477(4770)) (LA)]
Spring. 4 credits. Next offered 2007–2008.
K. McCullough.]

ENGL 479(4790) Advanced Seminar in American Literature: Visual Culture and Women's Literature (also FGSS 479(4790), VISST 480(4800)) (LA)]
Fall. 4 credits. S. Samuels.

This course will explore a concern shared by contemporary women writers and artists. In their works, bodily visibility raises questions about sexuality, race, and mother-daughter relations. They also use fiction and visual culture to show ingestion and forced incorporation. For example, many works emphasize scenes of eating and, contrarily, refusing to eat. Texts may include novels by Dorothy Allison, Tsitsi Dangaremba, Edwidge Danticat, Oonya Kempadoo, Jamaica Kincaid, Maxine Hong Kingston, Toni Morrison, Marilynne Robinson, and Leslie Marmon Silko. Artists examined may include Renee Cox, Mary Kelly, Shirin Neshat, Jolene Rickard, Cindy Sherman, Sally Mann, Bernie Searle, and Kara Walker. Course requirements: Two class presentations, three essays.

ENGL 480–481(4800–4810) Seminar in Writing (LA)]
480; fall; 481, spring. 4 credits.
For description, see section "Creative Writing."

[ENGL 483(4601) Seminar in Comparative 20th-Century Anglophone Drama (also THETR 483(4830)) (LA)]
Fall. 4 credits. Some knowledge of classical and avantgarde theories of drama and theatre would be useful, but is not a prerequisite for this course. Next offered 2007–2008.]

[ENGL 486(4860) American Indian Women's Literature (also AIS 486(4860)) (LA)]
Spring. 4 credits. Next offered 2007–2008.
L. Donaldson.]

[ENGL 487(4870) Writing About Literature (LA)]
Fall. 4 credits. Next offered 2007–2008.
F. Bogel.]

[ENGL 490(4900) Literatures of the Archipelagoes: Caribbean and Pacific "Tidalectics" @ (LA)]
4 credits. Next offered 2008–2009.
E. DeLoughrey.]

ENGL 491(4910) Honors Seminar I
Fall. 4 credits. Open to students in the Honors Program in English or related fields, or by permission of instructor.
Sec. 1: Defoe and His Contemporaries—N. Saccamano.
This course may be used as one of the three pre-1800 courses required of English majors. This course will examine a broad selection

of the poetry, novels, and journalism of Daniel Defoe in relation to other writers in the early 18th century. The multidisciplinary diversity of Defoe's work will allow us to investigate the connection of literature with economics and politics and, as we read some of his contemporaries, will furnish us with a rich understanding of 18th-century culture in general. Topics will include: newspapers and novels as "modern" genres; intellectual property and the legality of authorship; literary and financial speculation; the education of women; religion, satire, and sedition. Other writers will include Joseph Addison, Mary Astell, John Dryden, Eliza Haywood, Jonathan Swift.

Sec. 2: Black American Imaginary—N. Waligora-Davis.

This course studies the key figures and questions that have shaped black writings and expressive culture in the United States from the late 18th century. It opens with readings of slave petitions, fugitive slave narratives, and the central questions configuring Enlightenment discourse and the Haitian Revolution. Our treatment of the 19th and early 20th century engages the "Negro Problem" and the ideology of racial uplift, and moves into the black radicalisms and black nationalisms of the 1920s. This course engages the central tenets of the Civil Rights, Black Nationalist, and Black Arts movements, while moving forward to study the war on drugs and Hip Hop culture. Our readings include David Walker, Martin Delany, Frederick Douglass, W.E.B. DuBois and early 20th century and contemporary films and music.

ENGL 492(4920) Honors Seminar II
Spring. 4 credits. Open to students in the Honors Program in English or related fields, or by permission of instructor.

Sec 1: Women and the Novel Form—L. Brown. This course raises questions about the role of gender in the study of literature by exploring the development of the female-authored novel from the 17th to the 20th century. Readings include Burney's *Evelina*, Austen's *Emma*, Brontë's *Jane Eyre*, Woolf's *Room of One's Own* and *Mrs. Dalloway*, Morrison's *Sula*, and Silko's *Gardens in the Dunes*. These novels engage ideas about race and slavery, love and marriage, culture and difference, sexuality, and history. We will work together to develop close readings of the texts, and in each case we will experiment with a particular theoretical or critical perspective, including cultural studies, gender studies, poststructuralism, and postcolonialism. Requirements: participation in discussion, three in-class exercises, a take-home final, and a research paper preceded by a prospectus.

Sec 2: Arguments of Style in Poetry and Fiction—D. Fried. How does the most compelling commentary about literature achieve its force? How can critical style shed light on literary eloquence? How can the clarities of critical prose serve the stylistic indirections of poetry and fiction? How can writers of English Honors Theses find an individuating voice while attending to the voices of the works and writers they care about? Through a close study of several exemplary kinds of scholarly and critical writing about poetry and fiction notable for stylistic extravagance, we will consider how the claims of criticism are imminent in its language, syntax, and structure. Writers such as Hopkins, Hardy, Dickinson, Thoreau,

Ashbery, Austen, Henry James; critics such as: William Empson, Geoffrey Hartman, Christopher Ricks, Helen Vendler, Stanley Cavell, and others.

ENGL 493(4930) Honors Essay Tutorial I
Fall or spring. 4 credits. Prerequisites: senior standing and permission of director of the Honors Program.

ENGL 494(4940) Honors Essay Tutorial II
Fall or spring. 4 credits. Prerequisites: ENGL 493 and permission of director of the Honors Program.

ENGL 495(4950) Independent Study
Fall or spring. 2-4 credits. Prerequisites: permission of departmental advisor and director of undergraduate studies.

ENGL 497(4970) Terrorism and Its Representations (also COM L 421[4210])
Fall. 4 credits. E. Hyman.
For description, see COM L 421.

ENGL 499(4990) Studies in Irish Culture: Caricature # (LA)
Fall. 4 credits. S. Siegel.

This seminar explores Irish views of England during the long 19th century. Material will be drawn largely from the periodical press, non-fictional prose, and representations of England on the London and Dublin stage. Selected readings on the theory and practice of visual and verbal caricature as well as texts by, among others, Joyce, Shaw, Wilde, and Yeats.

Courses Primarily for Graduate Students

Permission of the instructor is a prerequisite for admission to courses numbered in the 600s. These are intended primarily for graduate students, although qualified undergraduates are sometimes admitted. Undergraduates seeking admission to a 600-level course should consult the instructor. The list of courses given below is illustrative only; a definitive list, together with course descriptions and class meeting times, is published in a separate department brochure before course enrollment each semester.

Graduate Courses in English 2006-2007

Fall

ENGL 600(6000) Colloquium for Entering Students
R. Kalas.

ENGL 602(6020) Literature and Theory (also ENGL 302[3020], COM L 302/622[3020/6220])
J. Culler.

ENGL 607(6070) Medieval Psychology: Dream Visions
M. Raskolnikov.

ENGL 609(6090) The Old English Laws (also ENGL 419[4190], HIST 469/669[4691/6691])
P. Hyams and T. Hill.

ENGL 611(6110) Old English (also ENGL 311[3110])
T. Hill.

ENGL 627(6270) Studies in Shakespeare: Shakespeare and Marlowe (also THETR 627[6270])
B. Correll.

ENGL 632(6320) Studies in the 18th Century: Key Texts of Modernity
L. Brown.

ENGL 633(6330) Satire, Sentiment, Imitation, and Mechanism in 18th-Century Literature
F. Bogel.

ENGL 635(6350) Seminar in Dramatic Theory; Theatre and Social Change (also THETR 637, FGSS 638[6380])
S. Warner.

ENGL 639(6390) Studies in Romantic Literature: Byron, Hazlitt, Percy and Mary Shelley, Keats, and the Issues of Romanticism
R. Parker.

ENGL 667(6670) 19th-Century American Poetry: Dickinson and Her Others
D. Fried.

ENGL 670(6700) Joyce's *Ulysses*
D. Schwarz.

ENGL 691(6910) Postcolonial America
L. Donaldson.

ENGL 696(6960) Digital Bodies, Virtual Identities (also COM L 692[6920], THETR 638[6380])
T. Murray.

ENGL 710(7100) Advanced Old English: Wisdom and Law
T. Hill.

ENGL 780.01 MFA Seminar: Poetry
A. Fulton.

ENGL 780.02 MFA Seminar: Fiction
A. Lurie.

ENGL 785(7850) Reading for Writers
S. Vaughn.

Spring

ENGL 606(6060) Alliterative Tradition
A. Galloway.

ENGL 612(6120) Beowulf (also ENGL 312[3120])
S. Zacher.

ENGL 622(6220) Renaissance Poetry (also COM L 450/650, ITALL 450/650[4500/6500])
T. Hill.

ENGL 657(6570) 20th-Century Experimental Fiction
M. Hite.

ENGL 660(6660) Cinematic Desire (also COM L 662[6620])
E. Hanson.

ENGL 661(6610) Colonial American Literatures
E. Cheyfitz.

ENGL 676(6760) Theory and Poetics of Narrative
H. Shaw.

ENGL 677(6770) Seminar in Theatre: The Question of Sovereignty: Theater, Theory, Form
P. Lorenz.

ENGL 682(6820) Baudelaire and the Lyrics
J. Culler.

ENGL 697(6970) Cosmopolitanism (also COM L 697[6970])
N. Saccamano.

ENGL 699(6990) Studies in African American Literature
H. Spillers.

ENGL 741(7410) Wordsworth and Rousseau
C. Chase.

ENGL 781.01(7810.01) MFA Seminar: Poetry
P. Janowitz.

ENGL 781.02(7810.02) MFA Seminar: Fiction
M. McCoy.

ENGL 792(7920) Prospectus Seminar
J. Culler.

ENGLISH AS A SECOND LANGUAGE

See "English for Academic Purposes."

ENGLISH FOR ACADEMIC PURPOSES

D. Campbell, director; S. Schaffzin, I. Arnesen, K. (Priscilla) Kershaw

Note: Courses and credits do not count toward the A.B. degree.

ENGLF 205(1005) English as a Second Language

Fall. 4 credits. Prerequisite: placement by exam. S. Schaffzin.

All-skills course emphasizing listening and speaking, with some writing practice. Students also meet individually with the instructor.

ENGLF 206(1006) English as a Second Language

Spring. 3 credits. Prerequisite: ENGLF 205 or placement by exam. S. Schaffzin.

Writing course for those who have completed ENGLF 205 and need further practice, or for those who place into the course. Individual conferences are also included.

ENGLF 209(1009) English as a Second Language

Fall or spring. 1 credit. Prerequisite: permission of instructor. S. Schaffzin.

Practice in classroom speaking and in informal conversational English techniques for gaining information. Students also practice giving informal presentations. Individual conferences with the instructor supplement class work.

ENGLF 210(1010) English as a Second Language

Spring. 1 credit. Prerequisite: permission of instructor. S. Schaffzin.

Practice in academic speaking. Formal classroom discussion techniques and presentation of information to a group. Presentations are videotaped and reviewed with the instructor. Individual conferences supplement class work.

ENGLF 211(1011) English as a Second Language

Fall, spring, or summer. 3 credits. Prerequisite: placement by exam.

D. Campbell.

Academic writing with emphasis on improving organization, grammar, vocabulary, and style through the writing and revision of short papers relevant to students' fields. Frequent individual conferences supplement class work.

ENGLF 212(1012) English as a Second Language

Spring, 3 credits. Limited to 12 students on first-come, first-served basis. Prerequisite: permission of instructor. D. Campbell.

Research paper writing. For the major writing assignment of this course, students must have a real project that is required for their graduate work. This can be a thesis proposal; a pre-thesis; part of a thesis, such as the literature review or discussion section; a paper for another course or a series of shorter papers (by permission of the other instructor); or a paper for publication. Time limitations make it difficult to deal with work over 20 pages in length. Course work involves practice in paraphrase, summary, the production of cohesive, coherent prose, vocabulary use, and grammatical structure. Frequent individual conferences are a necessary part of the course. Separate sections for social sciences/humanities and for science/technology.

ENGLF 213(1013) Written English for Non-Native Speakers

Spring, 3 credits. Prerequisite: permission of instructor. S. Schaffzin.

Designed for those whose writing fluency is sufficient for them to carry on regular academic work but who want to refine and develop their ability to express themselves clearly and effectively. Individual conferences supplement class work.

First-Year Writing Seminar**ENGLB 115-116(1050-1060) English for Later Bilinguals**

For description, see First-Year Writing Program brochure.

FALCON PROGRAM (INDONESIAN)

See "Department of Asian Studies."

FEMINIST, GENDER, AND SEXUALITY STUDIES

Core faculty: A. Basu, S. Bem, L. Beneria, L. Bogel, J. Brumberg, D. Castillo, S. Correll, E. DeLoughrey, I. DeVault, S. Feldman, J. Fortune, J. E. Gainor, K. Haines-Eitzen, E. Hanson, M. Hite, M. Katzenstein, K. Long, T. Loos, K. March, C. A. Martin, S. Martin, S. McConnell-Ginet, K. McCullough, M. B. Norton, J. Peraino, D. Reese, S. Samuels, D. Schrader, A. M. Smith, A. Villarejo, R. Weil

Cross-listing faculty: E. Baptist, D. Bem, A. Berger, J. Bernstock, F. Blau, L. Bogel, L. Carrillo, D. Chang, K. Cohen, M. Evangelista, M. Fernandez, D. Ghosh, K. Graubart, S. Haenni, C. Howie, P. Hyams, E. Hyman, W. Jacob, P. Janowitz, C. Lazzaro, P. Liu, M. Migiel, A. Parrot, J. Peraino, L. Ramberg, M. Raskolnikov, Q. Roberson, M. Rossiter, N. Russell, S. Sangren, R. Savin-Williams, S. Seth, N. Sethi, P. Tolbert, M. Warner, S. Warner, M. Washington, L. Williams, L. Wilton, S. Wong, D. Woubshet

Introduction to the Program

The Feminist, Gender, & Sexuality Studies Program is an interdisciplinary program in the College of Arts and Sciences that seeks to deepen our understanding of gender

and sexuality. Since its founding in 1972 (see below), the Program has integrated the study of gender with complex structures of power and inequality including race, sexuality, class, and nation. Over the past several decades, the curriculum has also increasingly broadened its scope theoretically and methodologically to encompass cultural, historical, literary, scientific, and quantitative analysis. Students find that these innovative methods and theories enhance their lifelong personal and intellectual growth, as well as their professional development insofar as they prepare students for future study or work in a wide variety of fields: law, medicine, social policy, art, psychology, literature, and so on.

The Program is built around several assumptions about the study of gender and sexuality. First, understandings of sex, sexuality, and gender are neither universal nor immutable; to study them is to gain a fuller understanding of human behavior, culture and society across times and places as well as to gain a sense of how these social constructions shape us as individuals. Second, gender and sexuality are best understood when examined in relation to one another by learning about women and men of different economic classes, sexual orientations, and cultural and racial backgrounds. Third, even the most current knowledge derived from the humanities, social sciences and natural sciences is not as impartial, objective, or neutral but instead emerges out of particular historical and political contexts. Students, as a consequence, transfer the critical and analytical skills they acquire in FGSS courses to other courses and activities beyond Cornell.

A historical footnote: Established in 1972 as one of the by-products of the Women's Liberation Movement, the Cornell Feminist, Gender, & Sexuality Studies Program was initially called *Women's Studies* so as to explicitly name the group rendered invisible by (what was then almost always referred to as) the "patriarchy"—and also so as to highlight that it would be speaking from the perspective of the traditionally marginalized Other rather than from the perspective of the group presumed by the dominant paradigm to neutrally represent humankind (i.e., men). But the name quickly became controversial, not only because it suggested that the objects of study, as well as those undertaking the studies, were exclusively women, but also because it did nothing to discourage the common assumption that the women in question were white, middle-class, and heterosexual. To expand and institutionalize the sexuality component of the Program, a minor in Lesbian, Bisexual, & Gay Studies was established at both the graduate and undergraduate levels in the early 1990s. To shift the emphasis of the Program even further toward the intertwining of gender and sexuality with structures of power and inequality, in 2002 the program changed its name from Women's Studies to Feminist, Gender, & Sexuality Studies.

Program Offerings

Feminist, Gender, and Sexuality Studies offers an undergraduate major, an undergraduate concentration, and a graduate minor. Undergraduate students in the College of Arts and Sciences who want to major in FGSS may apply directly to the program. Undergraduate students in other colleges at Cornell will need to work out special arrangements and should

speak to FGSS's director of undergraduate studies (DUS).

The Undergraduate Major: FGSS

- 1. Prerequisite courses:** Before applying to the major, the student must complete any two FGSS courses with a grade of B- or better. For FGSS courses that are cross-listed with another department, students may register through FGSS or the cross-listing department. Suggested entry-level courses include any FGSS course at the 200 level, especially 201 and 202, both of which are required for completion of the major. FGSS courses at the 200 level or above may count as both prerequisites and as part of the FGSS major. First-year writing seminars may count as prerequisites but not as part of the major.
- 2. Required course work:**
 - a. A minimum of 36 credits in FGSS courses with a grade of C- or higher is required for the major. For FGSS courses that are cross-listed, students may register through FGSS or the cross-listing department.
 - b. These 36 credits must include the following three courses:
 - FGSS 201 Introduction to FGSS Studies
 - FGSS 202 Introduction to FGSS Theories
 - FGSS 400 Senior Seminar in FGSS Studies
 - c. The 36 credits must also include at least one FGSS course with a significant focus on each of the following three categories: (Note: Although a given course may satisfy one, two, or even three of these categories, a given student must take at least two courses to fulfill this requirement):

- LBG studies
- Intersecting structures of oppression: race, ethnicity, and/or class
- Global perspectives: Africa, Asia, Latin America, or Middle East, by itself or in a comparative or transnational framework. Students may choose from the list in the course catalog or at FGSS office.

A student with a double major may count up to three FGSS courses toward the FGSS major that she/he is simultaneously counting toward a second major.

The Honors Program: To graduate with honors, a student majoring in FGSS must complete a senior thesis under the supervision of a FGSS faculty member and defend that thesis orally before an honors committee. To be eligible, a student must have at least a cumulative 3.0 GPA in all course work and a 3.3 GPA in all courses applying to their FGSS major. Students interested in the honors program should consult the DUS late in the spring semester of their junior year, or very early in the fall semester of their senior year.

The FGSS Concentration

Undergraduate students in any college at Cornell may concentrate in Feminist, Gender, & Sexuality Studies in conjunction with a major defined elsewhere in the university. The concentration consists of five FGSS courses with a grade of C- or higher, through FGSS or the cross-listing department that are completed with a grade of C- or above, none

of which may be counted toward the student's non-FGSS major. An exception to this rule may be made for students in the contract colleges, who may petition the FGSS DUS to count one course from their major toward the FGSS concentration. First-year writing seminars may not be included within the five required courses. Students wishing to concentrate in FGSS should see the DUS. The five courses required for the FGSS Undergraduate Concentration must include:

FGSS 201 Introduction to FGSS Studies

FGSS 202 Introduction to FGSS Theories

Any FGSS course that satisfies at least one of the three categories required for a major as defined above.

Any two additional FGSS courses of the student's choice.

The LBG Concentration

FGSS serves as home to the Lesbian, Bisexual, and Gay Studies Program, which offers an undergraduate concentration as well as a graduate minor. The LBG undergraduate concentration consists of four courses. For a complete listing of all courses that will fulfill this concentration please see the LBG Studies portion of this catalog.

1. First-Year Writing Seminars

FGSS 106(1060) FWS: Women and Writing (also ENGL 105[1060])

Fall and spring. 3 credits. Staff.

2. Courses

FGSS 201(2010) Introduction to Feminist, Gender, and Sexuality Studies (CA)

Fall and spring. 4 credits. S. Martin and K. McCullough.

Feminist, Gender, & Sexuality Studies is an interdisciplinary program focused on understanding the impact of gender and sexuality on the world around us and on the power hierarchies that structure it. This course focuses mainly on the experiences, historical conditions, and concerns of women as they are shaped by gender and sexuality both in the present and the past. Students read a variety of texts, personal narratives, historical documents, and cultural criticism across a range of disciplines. In doing so students consider how larger structural systems of both privilege and oppression affect individuals' identities, experiences, and options, and simultaneously examine forms of agency and action taken by women in the face of these larger systems.

FGSS 202(2020) Introduction to Feminist, Gender, and Sexuality Theories (also VISST 203[2020]) (CA)

Spring. 4 credits. D. Reese.

Introduces students to critical approaches in feminist scholarship to the cultural, socioeconomic, and political situation(s) of women. Particular attention is paid to the conceptual challenges and dangers posed by attempts to study women without taking account of relations between race, class, and gender in ideological and social formations. Readings draw on work in various disciplines and include literary texts and visual images.

[FGSS 205(2050) Introduction to World Literatures in English (also ENGL 205[2050])

4 credits. Next offered 2007-2008.
E. DeLoughrey.]

FGSS 209(2090) Seminar in Early American History (also HIST 209[2090], AM ST 209[2090])

Fall. 4 credits. M. B. Norton.

For description, see HIST 209.

[FGSS 212(2120) African American Women: 20th Century (also HIST/AM ST 212[2120])

4 credits. Next offered 2007-2008.

M. Washington.]

FGSS 214(2140) Biological Basis of Sex Differences (also BIOAP 214[2140], B&SOC 214[2141])

Fall. 3 credits. Offered alternate years.

J. Fortune.

For description, see BIOAP 214.

[FGSS 216(2160) Gender and Colonization in Latin America (also HIST 216[2160], LAT A 216[2161])

4 credits. Next offered 2008-2009.

K. Graubart.]

[FGSS 217(2170) Gender, Sex, Empire: Modern Middle East

4 credits. Next offered 2007-2008.

W. Jacob.]

[FGSS 219(2190) Women in South Asia (also HIST 219[2190], ASIAN 219[2191])

4 credits. Next offered 2008-2009.

D. Ghosh.]

FGSS 244(2440) Language and Gender Relations (also LING 244[2444])

Spring. 4 credits. S. McConnell-Ginet.

For description, see LING 244.

FGSS 246(2460) Contemporary Narratives by Latina Writers (also SPANL/LSP 246[2460])

Fall. 3 credits. L. Carrillo.

For description, see SPANL 246.

FGSS 249(2490) Feminism and Philosophy (also PHIL 249[2490])

Fall. 4 credits. N. Sethi.

For description, see PHIL 249.

[FGSS 251(2510) 20th-Century Women Writers (also ENGL 251[2510])

4 credits. Next offered 2007-2008.

E. DeLoughrey.]

FGSS 261(2610) SSP: Feminist Theory/State Theory (also GOVT 261[2615])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 261.

[FGSS 263(2630) Studies in Film Analysis: Monsters and Misfits: Hollywood's Misogynist Myths of Women (also ENGL 263[2630], FILM 265[2650])

4 credits. Next offered 2007-2008.

L. Bogel.]

FGSS 270(2700) Gender: Meanings and Practice (also SOC 270[2700])

Spring. 3 credits. S. Correll.

For description, see SOC 270.

[FGSS 273(2730) Women in American Society, Past and Present (also HIST 273[2730])

4 credits. Next offered 2007-2008.

M. B. Norton.]

FGSS 276(2760) Desire (also ENGL 276[2760], THETR 278[2780])

Spring. 4 credits. E. Hanson.

For description, see ENGL 276.

FGSS 304(3040) Women and Politics (also GOVT 304[3043])

Spring. 4 credits. S. Martin.

For description, see GOVT 304.

FGSS 305(3050) Questioning Kin, Queering Family (also ANTHR 304[3104]) (SBA)

Fall. 3 credits. L. Ramberg.

As a symbolic system and field of practice, kinship produces configurations of sexuality, gender, race and power embodied by persons. This recognition is indebted to critical race, feminist, postcolonial and queer interventions in the field of kinship studies. In this course we will review key texts in this field beginning with classic anthropological theories of kinship. We will consider the variability of sanctioned arrangements of sexuality, procreation, household labor and economy across the historical and ethnographic record. Focusing on this variation, we will pose relatedness as a question. Which lives, forms of desire, modes of embodiment are enabled, and which are abjected through the grammar of kinship at work in a particular place and time? What possibilities of life lie outside dominant kinmaking practices?

[FGSS 307(3070) African American Women in Slavery and Freedom (also HIST/AM ST 303[3030])

4 credits. Next offered 2007-2008.

M. Washington.]

FGSS 321/631(3210/6310) Sex and Gender in Cross-Cultural Perspective (also ANTHR 321/621[3421/6421])

Fall. 4 credits. K. March.

For description, see ANTHR 321/621.

FGSS 325(3250) Queer Performance (also THETR 326[3260])

Spring. 4 credits. S. Warner.

For description, see THETR 326.

FGSS 341(3410) Objects on Objects: Women Writers and the Aesthetics of the Modern (also COM L 319[3190]) (LA)

Fall. 4 credits. D. Reese.

As we have so often heard, "women are objects," are ever on the verge of being objectified," but what happens when the objects take to the typewriter or pen? In this course we will read women authors from Europe and America writing in the first half of the 20th century. Companion readings will include analyses of the spread of commodity culture, early 20th century anthropology which theorizes "the exchange in women," social histories of things and essays on modernist aesthetics. How do these works encode social configurations of space, violence of class, race and gender, technologies of war or possibilities of communicable experience within a poetics of things?

FGSS 344(3440) Male and Female in Chinese Culture and Society (also ANTHR 344[3554])

Fall. 4 credits. S. Sangren.

For description, see ANTHR 344.

FGSS 347(3470) Asian American Women's History (also HIST 347[3470], AM ST 351[3470])

Spring. 4 credits. D. Chang.

For description, see HIST 347.

FGSS 348(3480) Studies in Women's Literature (also ENGL 348[3480])

Spring. 4 credits. K. McCullough.

For description, see ENGL 348.

FGSS 350(3500) Contemporary Issues in Women's Health (also PAM 350[3500])

Fall. 3–5 variable credits. A. Parrot.
For description, see PAM 350.

FGSS 353(3530) Monsters A–Z (Aristotle–X-files) (also FRLIT/COM L 353[3530])

Fall. 4 credits. K. Long.
For description, see FRLIT 353.

FGSS 355(3550) Decadence (also ENGL 355[3550])

Fall. 4 credits. E. Hanson.
For description, see ENGL 355.

FGSS 356(3560) He Said, She Said: The Battle of the Sexes in Medieval and Renaissance Writing (also FRLIT/ITAL 355[3550])

Spring. 4 credits. K. Long and M. Miguel.
For description, see FRLIT 355.

[FGSS 358(3580) Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 388/688[3880/6880])

Spring. Next offered 2007–2008. N. Sakai.]

[FGSS 360(3600) Gender and Globalization (also CRP 395[3950]) (SBA)

3 credits. Next offered 2007–2008.
L. Beneria.

This course invites students to think globally about gender issues and to trace the connections between global, national and local perspectives. Emphasis will be given to: understanding processes of globalization (economic, political, cultural); discussing ways in which these processes interact with the dynamics of gender differentiation; understanding how globalization affects women's and men's paid and unpaid work; discussing the significance of women's location in global markets; looking at the importance of culture and social construction of gender in shaping the ways in which globalization affects people's lives and gender relations; introducing regional differences and similarities; discussing the gender dimensions in the debates on "the clash of civilizations"; introducing questions of global governance and examining cases that illustrate women's role in the shaping of international debates.]

FGSS 368(3680) Marriage and Sexuality in Medieval Europe (also HIST/RELST 368[3680])

Fall. 4 credits. P. Hyams.
For description, see HIST 368.

FGSS 369(3690) Fast-Talking Dames and Sad Ladies (also ENGL 369[3690], FILM 369[3690])

Spring. 4 credits. L. Bogel.
For description, see ENGL 369.

[FGSS 370(3700) Gender and Age in Archeology (also ANTHR/ARKEO 369[3269])

4 credits. Next offered 2007–2008.
N. Russell.]

FGSS 381(3810) 19th-Century French Women Writers (also FRLIT 381[3810])

Fall. 4 credits. A. Berger.
For description, see FRLIT 381.

FGSS 385(3850) Gender and Sexual Minorities (also HD 384[3840])

Fall. 3 credits. K. Cohen.
For description, see HD 384.

FGSS 399(3990) Undergraduate Independent Study

Fall and spring. 1–4 credits. Prerequisites: one course in Feminist, Gender, and Sexuality Studies and permission of a Feminist, Gender, and Sexuality Studies faculty member. Staff.

FGSS 400(4000) Senior Seminar in Feminist, Gender, and Sexuality Studies

Fall. 4 credits. Prerequisite: requirement for and limited to Feminist, Gender, and Sexuality Studies majors. A. Villarejo.
Although the topic/focus of this course surely varies with the instructor, it is always treated as a broad capstone course for majors.

[FGSS 404(4040) Women Artists (also ART H 466[4610])

4 credits. Next offered 2008–2009.
J. Bernstock.]

FGSS 406(4060) The Culture of Lives (also ANTHR 406[4406])

Spring. 4 credits. K. March.
For description, see ANTHR 406.

FGSS 410(4100) Health and Survival Inequalities (also SOC 410[4100])

Fall. 4 credits. A. Basu.
For description, see SOC 410.

FGSS 411/611(4110/6110) Seminar: Devolution and Privatization: Challenges for Urban Public Management (also CRP 412/612 [4120/6120], AEM 433/633 [4330/6330])

Fall. 4 credits. M. Warner.
For description, see CRP 412.

FGSS 414(4140) Bodies in the Middle Ages: Embodiment, Incarnation, Performance (also ENGL 414[4140])

Spring. 4 credits. M. Raskolnikov.
For description, see ENGL 414.

[FGSS 416(4160) Gender and Sex in South East Asia (also HIST 416[4160], ASIAN 416[4416])

4 credits. Next offered 2008–2009. T. Loos.]

FGSS 420/620(4200/6200) Government Policy Workshop (also CRP 418/618[4180/6180], AEM 634[6340])

Spring. 4 credits. M. Warner.
For description, see CRP 418/618.

FGSS 421(4210) Theories of Reproduction (also SOC 421[4210], D SOC 421[4210])

Spring. 4 credits. A. Basu.
For description, see SOC 421.

FGSS 422(4220) New York Women (also S&TS 422[4221], HIST 445[4451])

Fall. 4 credits. M. Rossiter.
For description, see S&TS 422.

FGSS 429(4290) The Sexual Politics of Religion (also RELST 424[4240])

Spring. 4 credits. L. Ramberg.
Drawing on feminist and queer theory and ethnographic studies of ritual and devotional practices around the world this course will consider the relationships among the social organization of sexuality, embodiment of gender, nationalisms and everyday forms of worship. In addition to investigating the norms of family, gender, sex and the nation embedded in dominant institutionalized forms of religion we will study such phenomena as ritual transgenderism, neo tantrism, theogamy (marriage to a deity), priestly celibacy and

temple prostitution. The disciplinary and normalizing effects of religion as well as the possibilities of religiosity as a mode of social dissent will be explored through different ethnographic and fictional accounts of ritual and faithful practices in Africa, Asia and the Americas.

FGSS 444(4440) Historical Issues of Gender and Science (also S&TS 444[4441])

Spring. 4 credits. M. Rossiter.
For description, see S&TS 444.

[FGSS 445(4450) American Men (also HIST/AM ST 444[4440])

4 credits. Next offered 2008–2009.
E. Baptist.]

FGSS 446(4460) Women in the Economy (also ILRLE 445[4450], ECON 457[4570])

Fall. 4 credits. F. Blau.
For description, see ILRLE 445.

FGSS 447(4470) Gender, Sexuality, and the Body in Late Antiquity (also NES 445[4450], RELST 445[4545])

Fall. 4 credits. K. Haines-Eitzen.
For description, see NES 445.

FGSS 448(4480) Global Perspectives on Violence against Women (also PAM 444[4440])

Spring. 3 credits. A. Parrot.
For description, see PAM 444.

FGSS 449(4490) Mystics and Mystique (also FGSS 649[6490], FRLIT 449/649[4490/6490])

Fall. 4 credits. C. Howie.
For description, see FRLIT 449.

FGSS 451(4510) Women in Italian Renaissance Art (also ART H 450[4450])

Spring. 4 credits. C. Lazzaro.
For description, see ART H 450.

FGSS 461(4610) Sexuality and the Law (also GOVT 462[4625], GOVT 762[7265], FGSS 726[7620])

Spring. 4 credits. A. M. Smith.
For description, see GOVT 762.

FGSS 462(4620) Diversity and Employee Relations (also ILRHR 463[4630])

Fall. 4 credits. Q. Roberson.
For description, see ILRHR 463.

[FGSS 467(4670) Sexual Minorities and Human Development (also HD 464[4640])

3 credits. R. Savin-Williams.]

FGSS 474(4740) Exoticism and Eroticism: Figures of the Other in the French Enlightenment (also FRLIT 475[4750])

Fall. 4 credits. A. Berger.
For description, see FRLIT 475.

[FGSS 475/675(4750/6750) Advanced Undergraduate Seminar in Global Feminisms: Naming Women and Globalization

3 credits. Next offered 2007–2008.
D. Reese.

International treaties have designated a "trade barrier" as a primary semester in legislative negotiations between nation-states. This course explores the implications of this economic form of valuation.]

[FGSS 476(4760) Global Women's Literature: (En) Gendering Space (also ENGL 476(4760))

4 credits. Next offered 2007-2008.
E. DeLoughrey.]

[FGSS 477(4770) Intersections in Lesbian Fiction (also ENGL 478(4780), AM ST 468(4780))

4 credits. Next offered 2007-2008.
K. McCullough.]

FGSS 478(4780) Senior Seminar in the 20th Century: Narratives of Loss (AIDS) (also ENGL 475(4750))

Fall. 4 credits. D. Wouhshet.
For description, see ENGL 475.

FGSS 479(4790) Advanced Seminar in American Literature: Gender and Visual Culture in Women's Literature (also ENGL 479(4790), VISST 480(4800), ART H 479(4799))

Fall. 4 credits. S. Samuels.
For description, see ENGL 479.

[FGSS 480(4800) Studies in Gender Theory: Kinship and Embodiment (also COM L 481(4810))

4 credits. Next offered 2007-2008. P. Liu.]

FGSS 488(4880) Beliefs, Attitudes, and Ideologies (also PSYCH 489/689(4890/6890))

Fall. 4 credits. D. Bem.
For description, see PSYCH 489.

FGSS 497(4970) Sexual Citizenship (also COM L 497(4970))

Spring. 4 credits. E. Hyman.
For description, see COM L 497.

FGSS 499(4990) Senior Honors Thesis
Fall and spring. 1-8 credits. Prerequisite: FGSS seniors only. Staff.

To graduate with honors, FGSS majors must complete a senior thesis under the supervision of a FGSS faculty member and defend that thesis orally before an honors committee. To be eligible for honors, students must have at least a cumulative GPA of 3.0 in all course work and a 3.3 average in all courses applying to their FGSS major. Students interested in the honors program should consult the DUS late in the spring semester of their junior year or very early in the fall semester of their senior year.

[FGSS 610(6100) Sexuality and the Politics of Representation (also FILM 610(6100))

Spring. 4 credits. Next offered 2008-2009.
A. Villarejo.

Seminar exploring contexts for critical work on sexuality and film/video. Course examines the uses and abuses of psychoanalytic theory and the regulation of sexuality.]

[FGSS 612(6120) Population and Development in Asia (also D SOC 612(6120))

3 credits. Next offered 2007-2008.
L. Williams.]

FGSS 614(6140) Gender and International Development (also CRP 614(6140))

Spring. 3 credits. L. Beneria.
For description, see CRP 614.

FGSS 617(6170) Feminist Methodology (also GOVT 642(6423))

Spring. 4 credits. S. Martin.
A feminist lens of analysis disrupts traditional categories that frame the questions we ask with implications for the answers that we find and how we find them. A sample of readings across the disciplines will allow us to explore how feminist scholarship has led to the reframing of big questions while stretching the boundaries of traditional methodological frontiers. This course seeks to familiarize students with primarily qualitative methodological tools to be applied to individual research questions.

FGSS 620(6200) Government Policy Workshop (also CRP 618(6180), AEM 634(6340))

Spring. 4 credits. M. Warner.
For description, see CRP 618.

FGSS 621(6210) Black Communities and the Politics of Health (also AS&RC 620(6602), HD 622(6220))

Fall. 4 credits. L. Wilton.
For description, see AS&RC 620.

FGSS 622(6220) Gender and Slavery in the Americas (also AS&RC 612(6203))

Spring. 4 credits. W. Battle-Baptiste.
For description, see AS&RC 612.

FGSS 624(6240) Epistemological Development and Reflective Thought (also EDUC 614(6140))

Fall. 3 credits. D. Schrader.
For description, see EDUC 614.

FGSS 629(6290) The Sexual Politics of Religion

Spring. 4 credits. L. Ramberg.
For description, see FGSS 429.

FGSS 631(6210) Sex and Gender in Cross-Cultural Perspective (also FGSS 321(3210), ANTHR 321/621(3421/6421))

Fall. 4 credits. K. March.
For description, see ANTHR 321.

[FGSS 636(6360) Comparative History of Women and Work (also ILRIC 636(6360))

4 credits. I. DeVault.]

FGSS 638(6380) Seminar in Dramatic Theory: Theater and Social Change (also THETR 637(6370))

Fall. 4 credits. S. Warner.
For description, see THETR 637.

[FGSS 640(6400) Historical Issues of Gender and Science (also HIST 641(6410), S&TS 640(6401))

4 credits. Next offered 2007-2008. S. Seth.]

[FGSS 644(6440) Topics in the History of Women in Science (also S&TS 644(6441))

4 credits. Next offered 2008-2009.
M. Rossiter.]

FGSS 649(6490) Mystics and Mystique (also FRLIT 449/649(4490/6490))

Fall. 4 credits. C. Howie.
For description, see FRLIT 449/669.

[FGSS 658(6580) Theorizing Gender and Race in Asian Histories and Literatures (also ASIAN 388/688(3880/6880))

4 credits. Next offered 2007-2008.
N. Sakai.]

FGSS 673(6730) Exoticism & Eroticism: Figures of the Other in 18th Century Literature (also FRLIT 673(6730))

Fall. 4 credits. A. Berger.
For description, see FRLIT 474.

FGSS 674(6740) Cyberfeminism (also ART H 674(6104))

Spring. 4 credits. M. Fernandez.
For description, see ART H 674.

FGSS 692(6920) Hispanic Feminisms (also SPANL 690(6900))

Spring. 4 credits. D. Castillo.
For description, see SPANL 690.

FGSS 695(6950) Topics in Music: Gender, Sexuality, and Glam Rock (also MUSIC 695(7311))

Fall. 4 credits. J. Peraino.
For description, see MUSIC 695.

FGSS 699(6990) Topics in Feminist, Gender, & Sexuality Studies

Fall and spring. Variable credit. Staff.
Independent reading course for graduate students on topics not covered in regularly scheduled courses. Students develop a course of readings in consultation with a faculty member in the field of Feminist, Gender, and Sexuality Studies who has agreed to supervise the course work.

FGSS 762(7620) Sexuality and the Law (also GOVT 462(4625), FGSS 461(4610), 762(7625))

Spring. 4 credits. A. M. Smith.
For description, see GOVT 762.

FILM

See "Department of Theatre, Film, and Dance."

FIRST-YEAR WRITING SEMINARS

For information about the requirements for writing seminars and descriptions of seminar offerings, see the John S. Knight Institute web site: www.arts.cornell.edu/knight_institute.

FRENCH

See "Romance Studies."

GERMAN STUDIES

L. Adelson; D. Bathrick, acting chair; M. Briggs (Dutch); B. Buettner, associate language program director; P. Gilgen, director of undergraduate studies (fall); A. Groos, acting director of graduate studies (fall); P. U. Hohendahl; G. Lischke, language program director and director of undergraduate studies (spring); B. Martin; U. Maschke, associate language program director; D. Reese, A. Schwarz, director of graduate studies (spring); L. Trancik (Swedish); G. Waite, Emeritus; H. Deinert.

The Department of German Studies offers students a wide range of opportunities to explore the literature and culture of German-speaking countries, whether as part of their general education, a major in German Studies, or a double major involving another

discipline, or as preparation for graduate school or an international professional career. Courses are offered in German as well as in English; subjects range from medieval to contemporary literature and from film and visual culture to intellectual history, music, history of psychology, and feminist, gender, and sexuality studies.

The course offerings in German begin with GERST 121–122, 123 (introductory language level). Students then continue with intermediate-level courses, which provide further grounding in the language and in German literature and cultural studies. GERST 206 provides instruction for German in the culture of business, leading to certification. On the advanced level (300 level or above), we offer thematically oriented courses that include intensive language work (301, 302, 306, 310); literature and culture study courses in German, including the senior seminar; and seminars of interdisciplinary interest taught in English. Addressing a broad spectrum of topics in German culture, our courses appeal to German majors and other qualified students alike.

The department's offerings in English begin with a series of first-year writing seminars introducing various aspects of German literature (e.g., the fairy tale and Romantic consciousness or 20th-century writers such as Kafka, Hesse, Mann, Brecht), theorists such as Marx, Nietzsche and Freud, issues in mass culture and modernity, problems of German national identity/ies, and cinema and society. Courses in German and English at the 300 and 400 levels explore such topics as the Faust legend, aesthetics from Kant to Heidegger, city topographies, Freud and his legacy, opera from Mozart to Strauss, the German novel, literature and philosophy, political theory and cinema, the Frankfurt School, migration and globalization, and feminist theory. It may be possible to arrange a German section for courses taught in English, either informally or formally (for credit). Students are encouraged to discuss this possibility with instructors.

Sequence of Courses

Courses in German:

Introductory level: GERST 121–122, after completion, placement into GERST 123 or 200

Intermediate level: GERST 200, 202, 204, and 206

Advanced level: GERST 301, 302, 306, 307, 310, and 410

Courses taught in German that are numbered 300 through 320 focus on intensive language study; courses taught in German that are numbered 321 through 350 focus on studying literature and other forms of cultural expression.

Courses in German or English: further 300- and 400-level literature and culture courses (see course descriptions)

Advanced Standing

Students with an AP score of 4 or better are automatically granted 3 credits in German. Students with an AP score of 4 or better, an LPG score of 65 or higher, or an SAT II score of 690 or higher must take the CASE exam for placement in courses above GERST 200. Students coming to Cornell with advanced standing in German and/or another subject are encouraged to consider a double major

and to discuss the options with the director of undergraduate studies as early as possible.

Certificate in German Language Study

The Certificate in German Language Study is issued to recognize substantial language study beyond the GERST 200 level in the Department of German Studies. Students are awarded the certificate after passing three German Studies courses held in German with a grade of B or above. Two of these courses must be at the 300 level or above. Applications for the language certificate may be picked up in the Department of German Studies (183 Goldwin Smith Hall) in February.

Internships

The department works with the USA-Interns program to provide summer internships to qualified students with German companies and agencies. Interested students should contact the language program director, Gunhild Lischke (gl15@cornell.edu, G75 Goldwin Smith Hall, 255-0725), early in the fall semester.

The Majors

The department offers two options for the major: German literature and culture, and German area studies. The latter is a more broadly defined sequence that includes work in related disciplines. The course of study in either major is designed to give students proficiency in reading, speaking, and writing in German, to acquaint them with German culture, and to help them develop skills in reading, analyzing, and discussing German texts in relevant disciplines with those goals in mind. The department also encourages study abroad. For both majors, there is a wide variety of courses co-sponsored with other departments (Comparative Literature; Government; History; Music; Theatre, Film, and Dance; Feminist, Gender, and Sexuality Studies).

The department encourages double majors and makes every effort to accommodate prospective majors with a late start in German. Students interested in a major should consult the director of undergraduate studies, Professor Peter Gilgen, 192 Goldwin Smith Hall (fall) or Gunhild Lischke, G75 Goldwin Smith Hall (spring).

German (Literature and Culture)

Students in this major select courses from the Department of German Studies and may use them to pursue individual interests in literature, film and visual culture, theater and performing arts, music, intellectual and political history, and gender studies, for example. Please consult with the director of undergraduate studies.

Admission: By the end of their sophomore year, prospective majors should have successfully completed GERST 202, 204, or 206.

To complete the major, a student must:

1. Demonstrate competence in the German language by successful completion of two 300-level courses with intensive language work (GERST 301, 302, 306, 310) or the equivalent.
2. Complete six courses in the Department of German Studies at the 300 level or

above. One of these must be GERST 410 Senior Seminar.

3. Select a faculty advisor from the department.

German Area Studies

Students select courses from the Department of German Studies as well as courses with a substantial German component from other departments, such as Comparative Literature; Government; History; Music; Theatre, Film, and Dance; and Feminist, Gender, and Sexuality Studies.

Admission: By the end of their sophomore year, prospective majors should have successfully completed GERST 202, 204, or 206.

To complete the major, a student must:

1. Demonstrate competence in the German language by successful completion of two 300-level courses with intensive language work (GERST 301, 302, 306, 310) or the equivalent.
2. Complete six courses with a substantial German component at the 300 level or above. Three of these must be in the Department of German Studies, including GERST 410 Senior Seminar.
3. Select a committee of one or more faculty advisors to help formulate a coherent program of study. One of the advisors must be from the Department of German Studies.

Honors

Honors in German Studies are awarded for excellence in the major, which includes overall grade point average and completion of the honors thesis. Students are awarded either honors (*cum laude*), high honors (*magna cum laude*), or the highest honors (*summa cum laude*) in the program based on the honors advisors' evaluation of the level and the quality of the work completed toward the honors degree. The honors distinction will be noted on the student's official transcript and will also be indicated on the student's diploma.

Prerequisites for admission. Students must have upperclass standing, an overall GPA of a B or higher, and a GPA of 3.5 or higher in the major. Students must first consult with the director of undergraduate studies in German Studies regarding eligibility for the honors program.

Procedure. Students who wish to be considered for honors ideally should apply to the director of undergraduate studies no later than the second term of the junior year. Students who are off campus in their junior year must apply by the third week of classes in the first semester of their senior year. Students should secure the consent of a faculty member to serve as the director of both the reading course (GERST 453) and the writing of a thesis (GERST 454). With the help of their thesis advisor, students choose an area of special interest and identify at least one other faculty member who is willing to serve on the honors committee. An oral thesis defense concludes the process.

Study Abroad in a German-Speaking Country

The Department of German Studies strongly supports study abroad as an opportunity for students to live and study in the German cultural context. The experience of living abroad promotes enduring personal growth, provides new intellectual perspectives through cultural immersion, and opens up academic and professional opportunities.

Students interested in studying abroad are encouraged to consider the Berlin Consortium, of which Cornell is a member. The program is run in conjunction with the Free University of Berlin and is of very high caliber. Six weeks of an intensive language practicum held at the Berlin Consortium center are followed by one or two semesters of study at the university. Participants enroll in regular courses at the university. Assistance in finding internships between semesters may be available to students staying for an entire academic year. Four semesters of German language study are prerequisite for participating in the program; ideally the last of these courses should be at the 300 level.

Students interested in this or other study abroad options in Germany, Austria, or Switzerland should consult the language program director, Gunhild Lischke (G75 Goldwin Smith Hall, 255-0725, gl15@cornell.edu).

First-Year Writing Seminars

Consult the John S. Knight Institute brochure for course times, instructors, and descriptions.

Courses Offered in German

GERST 121(1210) Exploring German Contexts I

Fall or spring. 4 credits. Intended for students with no prior experience in German or language placement test (LPG) below 37, or SAT II below 370. G. Lischke, U. Maschke, and staff.

Students develop basic abilities in listening, reading, writing, and speaking German in meaningful contexts through interaction in small group activities. Course materials including videos, short articles, poems, and songs provide students with varied perspectives on German language, culture, and society.

GERST 122(1220) Exploring German Contexts II

Fall or spring. 4 credits. Prerequisite: GERST 121, LPG 37-44, or SAT II 370-450. U. Maschke, G. Lischke, and staff.

Students build on their basic knowledge of German by engaging in intense and more sustained interaction in the language. Students learn more advanced language structures allowing them to express more complex ideas in German. Discussions, videos, and group activities address topics of relevance to the contemporary German-speaking world.

GERST 123(1230) Expanding the German Dossier

Fall or spring. 4 credits. *Successful completion of GERST 121, 122, and 123 satisfies Option 2.* Prerequisite: study of German and LPG 45-55 or SAT II 460-580. U. Maschke and staff.

Students continue to develop their language skills by discussing a variety of cultural topics and themes in the German-speaking world. The focus of the course is on expanding

vocabulary, reviewing major grammar topics, developing effective reading strategies, improving listening comprehension, and working on writing skills. Work in small groups increases each student's opportunity to speak in German and provides for greater feedback and individual help.

GERST 200(2000) Germany: Intercultural Context (CA)

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 123 or LPG 56-64 or SAT II 590-680, or placement by exam. B. Buettner and staff.

Content-based language course on the intermediate level. Students examine important aspects of present-day German culture while expanding and strengthening their reading, writing, and speaking skills in German. Materials for each topic are selected from a variety of sources (fiction, newspapers, magazines, and the Internet). Units address a variety of topics including studying at a German university, modern literature, Germany online, and Germany at the turn of the century. Oral and written work and individual and group presentations emphasize accurate and idiomatic expression in German. Successful completion of the course enables students to continue with more advanced courses in language, literature, and culture.

GERST 202(2020) Literary Texts and Contexts (LA)

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 200 or equivalent or placement exam. Conducted in German. D. Reese.

Students in this intermediate course read and discuss a number of works belonging to different literary genres by major German-speaking authors such as Kafka, Walser, Brecht, Mann, Frisch, Dürrenmatt, Bachmann, and others. They explore questions of subjectivity and identity in modern society, of human existence as existence in language, and of the representation of history in literary texts. Activities and assignments focus on the development of reading competency in different literary genres, the improvement of writing skills including the accurate use of idiomatic expressions, the expansion of students' German vocabulary, and the systematic review of select topics in German grammar.

GERST 204(2040) Working with Texts (CA)

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: GERST 200 or placement by exam (placement score and CASE). Staff.

Emphasis is on improving oral and written expression of idiomatic German. Enrichment of vocabulary and appropriate use of language in different conversational contexts and written genres. Material consists of readings in contemporary prose, articles on current events, videos, and group projects. Topics include awareness of culture, dependence of meaning on perspective, interviews with native German speakers, German news broadcasts, reading German newspapers on the Internet.

GERST 206(2060) German in Business Culture (CA)

Spring. 3 credits. *Satisfies Option 1.*

Prerequisite: GERST 200 or placement by examination placement score and CASE. Students without previous knowledge of business German are welcome. G. Lischke. Students learn German and understand German business culture at the same time.

This German language course examines the German economic structure and its major components: industry, trade unions, the banking system, and the government. Participants learn about the business culture in Germany and how to be effective in a work environment, Germany's role within the European Union, the role of the Bundesbank, the importance of trade and globalization, and current economic issues in Germany. The materials consist of authentic documents from the German business world, TV footage, and a business German textbook. At the end of the course, the external Goethe Institut exam "Deutsch für den Beruf" is offered.

GERST 301(3010) Scenes of the Crime: German Mystery and Detective Fiction (LA)

Fall. 4 credits. *Satisfies Option 1.* May be counted toward requirement for 300-level language work in the major. Prerequisite: GERST 202, 204, 206 or equivalent, or placement by exam, or permission of instructor. Taught in German. P. Gilgen.

Exploration of German crime, detective, and mystery writing in texts ranging from the early 19th century to contemporary fiction. Authors studied may include: Kleist, E. T. A. Hoffmann, Dürrenmatt, Schatten, Süskind, Handke, Oren, Arjouni, Ani, and Glauser. In addition to exercising hermeneutic skills (and, by extension, that gray matter of which Sherlock Holmes and Hercule Poirot were so fond), this course aims at improving proficiency in aural and reading comprehension, as well as speaking and writing skills, with emphasis on vocabulary expansion, advanced grammar review, and stylistic development. Recommended to students interested in a combined introduction to literature and high-level language training. The sister course GERST 302 Youth/Adolescence is taught in the spring semester.

GERST 302(3020) Youth Culture: Adolescence in German Fiction (LA)

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: GERST 202, 204 or 206 or equivalent or placement exam, permission of instructor. Taught in German. B. Buettner.

Examination of literary and cultural approaches to childhood, youth, and adolescence in texts ranging from the late 18th century to the present. Authors may include Bernhard, Musil, Zweig, von Horvath, Mann, Goethe, Kaschnitz, and Schlink. Aimed at improving students' proficiency in aural and reading comprehension, as well as in speaking and composition skills. Focus on high-level grammar review, stylistic and expository refinement and vocabulary expansion. Recommended for students wishing to combine intensive language training with reading and discussion of short fiction.

GERST 306(3060) German Media (CA)

Fall. 4 credits. Taught in German. *Satisfies Option 1.* Prerequisites: GERST 202, 204 or 206 or equivalent or permission of instructor. U. Maschke.

The course explores the German media landscape through analysis of print, film, and digital media. We will investigate different styles of writing and presentation to unravel culturally specific discourses of communication. Intensive language study will enable the students to develop their own projects in the media of choice.

GERST 310(3100) Berlin: Where the Wild Things Are (CA)

Spring. 4 credits. *Satisfies Option 1.*

Prerequisite: GERST 202, 204, 206, or equivalent or permission of instructor.

Taught in German. U. Maschke.

Berlin has recently been declared the city of the world: Berlin as the place to be for politicians and profit-seekers, architects and artists, the rich and famous, but also for those seeking new thrills. Is this new Berlin pulsing once again with the vibrant energy of the 1920s or overwhelmed by the historical legacy of fascism and the divisions of the Cold War? With a focus on a wide variety of media, such as literature, film, architecture, music, political documents, the Internet, and MIT's hypermedia program Berliner Sehen, this course investigates the emergence and life of contemporary Berlin in the context of its history as the capital of Germany. Differing and sometimes contradictory representations of this unique city form the thematic core of this course, which stresses the refinement of critical reading skills in German in addition to advanced writing, listening, and speaking skills in German. Especially suitable for students interested in study abroad, this course is open to all qualified students interested in high-level development of their German-language skills in the context of cultural studies.

[GERST 321(3210) After the Fires: Divided Germany, 1945 to 1989 (CA)]

Formerly GERST 307. Next offered 2007–2008. L. Adelson.]

[GERST 325(3250) The Age of Goethe # (LA)]

Fall. 4 credits. *Satisfies Option 1.* Next offered 2008–2009. A. Groos.]

GERST 410(4100) Senior Seminar (also GERST 610(6100))

Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: adequate command of German; any 300-level course taught in German, or equivalent, or permission of instructor. Readings and discussions in German. A. Groos.

Topic: Early Modern City Culture. An introduction to city culture in the 15th and 16th centuries, with emphasis on the significance of Nuremberg and other early modern urban centers such as Strassburg and Augsburg. Topics include the city's development and social structure, pre- and post-Reformation constructions of its image and history, public spectacle and imperial entries, print culture and humanism, social order and social conflict (the Fastnachtsspiel, anti-Semitism). Readings will include texts/images by Hans Sachs, Conrad Celtis, Sebastian Brant, Albrecht Dürer, Hans Rosenplüt and Hans Folz. The last part of the course will deal with the reception of early modern Nuremberg from Goethe through the Romantics, including *Die Meistersinger von Nürnberg*.

[GERST 442(4420) Changing Worlds: Migration, Minorities, and German Literature (LA)]

4 credits. *Satisfies Option 1.* Next offered 2008–2009. L. Adelson.]

GERST 443(4430) Love as Fiction. German Novellas from Three Centuries

Spring. 4 credits. *Satisfies Option 1.*

Conducted in German. Prerequisite: any

course at 300 level taught in German or equivalent or permission of instructor.

Readings and discussions in German.

A. Schwarz.

Examination of love as a literary motif in texts ranging from the 18th to the 20th century. Special attention to the following questions: love as indicator for changing social attitudes toward family and kinship; love as a literary expression of emotion; love as aesthetic theory. Authors: Goethe, Schiller, Schlegel, Kleinst, Stifter, Fontane, Storm, Mann, Strauß, and Böll.

Courses conducted in English

It may be possible to arrange a German section for courses conducted in English, either informally or formally (for credit). Students are encouraged to discuss this possibility with instructors.

[GERST 360(3600) Words and Music (also MUSIC 272(2245)) # (LA)]

Formerly GERST 342. Next offered 2008–2009. A. Groos.]

[GERST 374(3740) Opera and Culture (also MUSIC 374(3222)) # (LA)]

Next offered 2008–2009. A. Groos.]

Advanced Undergraduate and Graduate Courses**GERST 405(4050) Introduction to Medieval German Literature I # (LA)**

Fall. 4 credits. Prerequisite: reading knowledge of German. A. Groos.

After a brief introduction to basic aspects of the medieval universe, ranging from cosmology to psychology, readings will focus on introductory texts of late 12th-century courtly culture. Using the predominant genres of aristocratic self-representation, the heroic epic (Nibelungenlied), Arthurian romance (Hartmann's Erec or Iwein), and Minnesang, discussions will investigate the court as the locus of conflicting forces in the rise of the secular culture in Germany, examining such issues as the first vernacular construction of social and sexual identity, generational conflicts within the communal-dynastic order, the rise of individualism (the knightly quest), and subjectivity (the love lyric).

GERST 406(4060) Introduction to Medieval German Literature II # (LA)

Spring. 4 credits. Prerequisite: GERST 405 or equivalent or permission of instructor.

Anchor course for the medieval period.

A. Groos.

Political lyrics by Walther von der Vogelweide will introduce agendas of conflict in 13th-century German culture, ranging from crusades to civil war. Against this background, we will examine the utopian quest to win the Holy Grail and heal the Fisher King in Wolfram's Parzival, using Bakhtin's approach to pre-novelistic discourse. Readings from the love lyric trace representation of gender across emerging class differences, the increasing complexity of self, and instabilities of the performance text. Concluding topics may include women mystics and late medieval narratives of socio-sexual violence, anti-Semitism, and urban Angst.

GERST 407(4070) Teaching German as a Foreign Language

Fall. 4 credits. G. Lischke.

Designed to familiarize students with current ways of thinking in the field of applied linguistics and language pedagogy. Introduces different concepts of foreign

language methodology as well as presents and discusses various techniques as they can be implemented in the foreign language classroom. Special consideration is given to topics such as planning syllabi, writing classroom tests, and evaluating students' performance. Participants conduct an action research project.

GERST 420(4200) Faust: Close Reading (LA)

Fall. 4 credits. Conducted in English.

Limited to 15 students. G. Waite.

This is a close reading of Goethe's Faust (Parts I and II). Although our reading of Goethe's masterpiece inevitably is informed by contemporary theoretical concerns (including poststructuralism, deconstruction, psychoanalysis, feminism, gender and sexuality studies, and Marxism) our approach will be primarily that of close reading. Each week the amount of reading will be very small (sometimes only 10 or 15 lines at most) but these lines we will read carefully. Problems of translation will be crucial: annotated editions of the text will be available in German and in English.

[GERST 424(4240) The Totalitarian Order: Vision and Critique (also GOVT 425(4255)) (CA)]

Fall. 4 credits. Next offered 2007–2008.

P. U. Hohendahl.]

[GERST 430(4300) Brecht, Artaud, Müller, Wilson (also FILM 420(4200))]

Next offered 2007–2008. D. Bathrick.]

GERST 433 History of Modern Jewry (also HIST 433)

Fall. 4 credits. Limited to 15 students.

V. Caron.

For description, see HIST 433.

[GERST 441(4410) Introduction to Germanic Linguistics (also LING 441(4441)) (HA)]

Next offered 2008–2009. W. Harbert.

For description, see LING 441.]

[GERST 449(4490) Rescreening the Holocaust (also COM L 453(4530), FILM/RELT 450(4500)) (LA)]

Next offered 2008–2009. D. Bathrick.]

GERST 451–452(4510–4520) Independent Study

451, fall; 452, spring. 1–4 credits each semester. Prerequisite: permission of instructor.

GERST 453(4530) Honors Research

Fall. Staff.

GERST 454(4540) Honors Thesis

Spring. 8 credits. Prerequisite: GERST 453. Staff.

GERST 457(4570) Imagining the Holocaust (also COM L 483(4830), ENGL 458(4580)) (LA)

Spring. 4 credits. D. Schwartz.

For description, see ENGL 458.

GERST 471(4710) Critical Reason, The Basics: Kant, Hegel, Marx, Adorno (also GOVT 471(4715)) (KCM)

Fall. 4 credits. Limited to 15 students.

S. Buck-Morss.

For description, see GOVT 471.

[GERST 496(4960) Theorizing the Public Sphere]

Next offered 2008–2009. P. U. Hohendahl.]

Graduate Courses

Note: For complete descriptions of courses numbered 600 or above consult the appropriate instructor.

GERST 610(6100) Early Modern City Culture (also GERST 410[4100])

Fall. 4 credits. A. Groos.
For complete description, see GERST 410.

[GERST 615(6150) Jews in German Culture Since 1945]

Next offered 2008-2009. L. Adelson.]

[GERST 616(6160) Spaces of Literature]

Next offered 2007-2008. A. Schwarz.]

GERST 620(6200) Faust: Close Reading (also GERST 420[4200])

Fall. 4 credits. Limited to 15 students.
G. Waite.
For description, see GERST 420.

GERST 627(6270) Baroque (also COM L 657[6570])

Fall. 4 credits. Anchor course. Conducted in English. G. Waite.

This graduate seminar focuses on the "baroque" (or "early radical enlightenment") in two basic ways: (1) as a period of cultural production in 17th-century Europe (including Germany, the Netherlands, and Spain); (2) and as a problem in current aesthetic, philosophical, and political theory. Topics may include: allegory and drama of mourning (Benjamin); action from a distance and absent or immanent cause (Spinoza, Althusser); order of things (Foucault), fold (Leibniz, Deleuze); savage anomaly (Negri), guided culture (Maravall), death of painting (Marin).

[GERST 630(6300) Classicism and Idealism]

Next offered 2008-2009. P. U. Hohendahl.]

GERST 631-632(6310-6320) Academic German I and II

631, fall; 632, spring. 3 credits each semester. Prerequisites: graduate standing; for GERST 632, GERST 631 or equivalent. Staff.

Intended primarily for beginners with little or no previous German knowledge. Emphasis in 631 on acquiring basic German reading skills. Emphasis in 632 on development of the specialized vocabulary of student's field of study.

GERST 636(6360) Kleist and Kafka: Prose Works

Spring. 4 credits. D. Reese.
Reading Kleist and Kafka together, we will endeavor to strike upon our own vocabulary for describing the peculiar temporal qualities of their narratives and short prose works. Rather than beginning with a particular understanding of narratology, we will attempt to elaborate one by attending to what might be called narrative speed—an attention to the significance of lapses and accelerations in the art of storytelling. How is the description of space conditioned by the becoming of the description in time? How, in turn, is this reconstitution of space within the temporal development of the narrative related to the arrival of judgment? We will pay close attention to the variation between the random detail, what might be called narrative caprice, and recuperative, retrospective assertions of necessity—between the absurd and the demonstrable. Of particular concern will be the persistent dislocation of epistemological certainty in the unfolding of the texts and

how it bears on issues of law. In keeping with this, we will consider the density of the bodies which cross the thresholds of judgment, swallow prophecies, move through border patrols and succumb to or exceed the narrative logic which brings them forth. Selected prose works by Kleist and Kafka will be read alongside writings by Barthes, Benjamin, Bloch, Freud, and Nietzsche.

[GERST 637(6370) 19th-Century Fiction: The Realist Project]

Next offered 2007-2008. A. Schwarz.]

GERST 638(6380) Readings of Recollection (also COM L 601[6010])

Fall. 4 credits. P. Gilgen.
This course examines the emergence of a veritable philosophy of recollection around 1800. The decline of the *ars memoriae* and the temporalization of knowledge in the course of the 18th century made possible a new semantics of "recollection" (*Erinnerung*) in German culture. In the process, a number of canonical statements in the history of philosophy by the likes of Plato, Aristotle, and Augustine were thoroughly re-read and re-written. A new mode of reading was of central importance for this development. Primary readings may also include Cicero, Herder, Leibniz, Lessing, Kant, Goethe, Schiller, Hegel, Hölderlin.

GERST 639(6390) Walter Benjamin: Constellations of Thought (also COM L 623[6230])

Spring. 4 credits. Texts in English and German. Discussions in English.
A. Schwarz.

Considering the entire work of Walter Benjamin this seminar will explore this author's unique contributions to the fields of literature, philosophy and politics. Beginning with an analysis of Benjamin's notion of language as a fundamental premise of his analytic approach we shall expand the focus to include his studies of specific literary genres, authors and issues (Tragic drama, narrative, novel, translation, Schlegel, Baudelaire, Kraus, Kafka, Modernism) as well as his many contributions to political and cultural discussions (state of emergency, shock, youth movements). Benjamin's manifold status as literary critic, philosopher, political theorist and historian of culture reflects methodological constellations of thought and ideas that have set this author apart from any other critical school within the 20th century.

GERST 647(6470) German Literature from 1949 to 1989

Fall. 4 credits. Prerequisite: reading knowledge of German. D. Bathrick.
This seminar/anchor course will focus on German literature during the period of the cold war between 1949 and 1989. The point of the course will be to trace major themes and styles in German-speaking literature, East and West, in light of contemporaneous events of broad cultural and political significance. While individual texts will be examined within their specific historical (temporal, geopolitical, aesthetic) contexts, the course will also be organized comparatively around critical debates concerning such topics as fictional representations of the immediate past; attempts by minority/majority voices to challenge and change the canon; writing and social change; questions concerning a national cultural identity; the politics of postmodernity and postcolonialism; etc. Readings will be

taken from authors such as H. Böll, G. Grass, I. Bachmann, W. Koeppen, A. Andersch, P. Handke, F. Dürrenmatt, C. Wolf, P. Weiss, H. Müller, V. Braun, C. Hein, I. Morgner, J. Becker, H. Enzensberger, P. Schneider, V. Stefan, B. Strauss, A. Duden, M. Maron, and E. Özdamar.

[GERST 650(6500) Culture in the Weimar Period]

Next offered 2007-2008. D. Bathrick.]

[GERST 652(6520) Culture in Germany 1933-1945]

Next offered 2008-2009. D. Bathrick.]

[GERST 653(6530) Opera]

Next offered 2008-2009. A. Groos.]

GERST 658(6580) Old High German, Old Saxon (also LING 646[6646])

Spring. 4 credits. W. Harbert.
For description, see LING 646.

[GERST 668(6680) Literature and the Uncanny]

Next offered 2008-2009. A. Schwarz.]

GERST 669(6690) Modern Social Theory I (also GOVT 669[6695])

Fall. 4 credits.
For description, see GOVT 669.

[GERST 670(6700) Modern Social Theory II (also GOVT 670[6705], VISST 670[6470])]

Next offered 2007-2008. S. Buck-Morss.]

[GERST 671(6710) Postcolonial Theory and German Studies]

Next offered 2007-2008. L. Adelson.]

GERST 689(6890) The Aesthetic Theory of Adorno (also COM L 689[6890])

Fall. 4 credits. P. U. Hohendahl.
The seminar will focus on the aesthetic writings of Adorno, beginning with relevant chapters from *Dialectic of Enlightenment* as well as selected essays on European literature and music. The emphasis then will be placed on Adorno's major posthumous work: *Aesthetic Theory* (1970). The aim is a close reading of Adorno's theory in the context of the Kantian and Hegelian tradition.

[GERST 696(6960) Conceptualizing Cultural Contact]

Next offered 2007-2008. L. Adelson.]

GERST 753-754(7530-7540) Tutorial in German Literature

Fall and spring. 1-4 credits each semester.
Prerequisite: permission of instructor.

Dutch**DUTCH 121-122(1210-1220) Elementary Dutch**

121, fall; 122, spring. 4 credits each semester. Prerequisite: permission of instructor. M. Briggs.

Intensive practice in listening, speaking, reading, and writing basic Dutch in meaningful contexts. The course also offers insight into Dutch language, culture, and society.

DUTCH 203(2030) Intermediate Composition and Conversation

Fall. 3 credits. *Satisfies Option 1.*
Prerequisite: DUTCH 122 or permission of instructor. Offered in Dutch. M. Briggs.
Improved control of Dutch grammatical structures and vocabulary through guided conversation, discussions, compositions,

reading, and film, drawing on all Dutch-speaking cultures.

DUTCH 300(3000) Directed Studies

Spring. 1-4 credits, variable. Prerequisite: permission of instructor. Conducted in Dutch. M. Briggs.

Individualized advanced Dutch studies.

Provides students with individualized programs which can be anything from advanced mastery in any or all skills to the mastery of Dutch for research, literature, and history in support of all disciplines.

Swedish

SWED 121-122(1210-1220) Elementary Swedish

121, fall; 122, spring. 4 credits each semester. Prerequisite: for SWED 122, SWED 121 or equivalent. L. Trancik.

Students develop abilities in listening, speaking, reading, and writing within Sweden's cultural context. Work on the Internet, interactive computer programs, and a virtual textbook are used in these courses.

SWED 203(2030) Intermediate Swedish

Fall. 3 credits. Satisfies Option 1.

Prerequisite: SWED 122 or permission of instructor. L. Trancik.

Intermediate to advanced-level instruction using audiovisual material and text to enhance language comprehension.

SWED 300(3000) Directed Studies

Fall. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. L. Trancik.

Taught on a specialized basis to address particular student needs.

GOVERNMENT

V. Bunce, chair; C. Way, director of graduate studies; A. Carlson, director of undergraduate studies; C. Anderson, R. Bensel, S. Buck-Morss, M. Evangelista, J. Frank, L. Frasure, B. Hendrix, R. Herring, M. Jones-Correa, M. Katzenstein, P. Katzenstein, J. Kirshner, I. Kramnick, T. J. Lowi, S. Martin, L. Maxwell, W. Mebane, D. Moehler, D. Patel, J. Rabkin, K. Roberts, D. Rubenstein, E. Sanders, M. Shefter, J. Shields, A. M. Smith, J. J. Suh, N. Tannenwald, S. G. Tarrow, N. T. Uphoff, N. van de Walle, R. Weiner, H. Zimmermann.

Web site: falcon.arts.cornell.edu/Govt

"Government" is what Cornell calls a department that elsewhere might be termed political science. The focus of this discipline is power applied to public purposes. Some faculty concentrate on purposes, some on applications. Some engage in the close reading of great texts of political philosophy, while others analyze the behavior of power-wielders and publics in this and other societies. Government is divided into four subfields: U.S. politics, comparative politics (other nations), political theory (philosophy), and international relations (transactions between nations).

The Major

To be admitted to the major, a student must pass two government courses.

To complete the major, a student must:

1. pass two of the introductory government courses (GOVT 111, 131, 161, 181);

2. pass an additional course in one of the remaining subfields (American government, comparative government, political theory, or international relations). This course may be any course offered in the government department, including introductory courses, upper-level courses or seminars but must be a minimum of 3 credits. Students are strongly advised to take at least one course in each of the four subfields;
3. accumulate an additional 28 credits of government course work at the 300 level or above;
4. complete at least one seminar-style course in government that may be applied toward the 28 credits. These courses include those numbered 400.XX to which students are admitted by application only; or other 400-level GOVT courses in which no more than 15 students are enrolled.
5. accumulate 11 credits in upper-level courses in related fields (e.g., anthropology, economics, history, science and technology studies, psychology, and sociology). Upper-level courses are usually courses numbered at the 300 level or above (200-level courses are not considered upper-level). Students should consult with their major advisor to choose appropriate courses. All choices of related courses must be approved by the major advisor or the director of undergraduate studies;
6. all courses used to fulfill a government major must be passed with a letter grade. No S-U grades accepted.

To summarize, a total of 10 government courses and three additional courses (11 credits) of upper-level related courses are required to complete the major. For more information about the government major, please visit our web site: <http://falcon.arts.cornell.edu/Govt>.

Cornell in Washington Program. Government majors may apply to the Cornell in Washington program to take courses and undertake a closely supervised externship during a fall or spring semester.

European Studies Concentration. Government majors may elect to group some of their required and optional courses in the area of European studies, drawing from a wide variety of courses in relevant departments. Students are invited to consult Professors P. Katzenstein and S. G. Tarrow for advice on course selection and foreign study programs.

Model European Community Simulation.

Undergraduates with an interest in the European Union, public affairs, or debating may participate in an annual European Union simulation held, on an alternating basis, in April at SUNY Brockport or in January in Brussels. The simulation provides an opportunity for participants, representing politicians from the members states, to discuss issues and resolutions of current concern to the European Union.

To prepare for the simulation, a 2-credit course is offered by the Department of Government each year (GOVT 431 or 432). Participation in the simulation is open only to those who register for this course. Anyone interested in participating or finding out more information should contact the Institute for European Studies at 120 Uris Hall, 255-7592.

International Relations Concentration. See the description under "Special Programs and Interdisciplinary Studies."

Honors. Application to the honors program is made in the early spring of the junior year. For more information about the honors program and an application form, please visit falcon.arts.cornell.edu/Govt.

First-Year Writing Seminars. Consult the John S. Knight Institute brochure for times, instructors, and descriptions.

Major Seminars. Fall or spring. 4 credits. These seminars, emphasizing important controversies in the discipline, cap the majors' experience. Thus preference in admission is given to majors over nonmajors and seniors over juniors. Topics and instructors change each semester. To apply, students should pick up an application in 210 White Hall during the pre-enrollment period.

Course Subfields. Courses in the Department of Government are broken down into four subfields: American government, political theory, international relations, and comparative government. To determine in which category (or subfield) the following courses fall, please note the two-letter reference at the end of the descriptions. The key is as follows: AM = American, PT = theory, IR = international relations, and CO = comparative.

GOVT 111(1111) Introduction to American Government and Politics (SBA)

Fall and summer. 3 credits. T. Lowi. Introduction to government through the American experience. Concentrates on analysis of the institutions of government and politics as mechanisms of social control. (AM)

GOVT 131(1313) Introduction to Comparative Government and Politics (also LAT A 131[1310]) (SBA)

Spring and summer. 3 credits. K. Roberts. Provides a survey of the institutions, political processes, and policies of contemporary states. Focuses on the conditions for and workings of democracy. Looking at Western Europe, students analyze institutional variations among liberal democracies, and their political implications. Then they probe the origins of democracy in Western societies and the reasons why communism and other forms of authoritarian rule have prevailed elsewhere. Finally, they explore the impetus behind and the obstacles to democratization in the Third World and the erstwhile Communist Bloc. Throughout this survey, problems of democracy are related to problems of economic development, efficiency, and equality. (CO)

GOVT 161(1615) Introduction to Political Philosophy # (HA)

Spring. 3 credits. B. Hendrix. Survey of the development of Western political theory from Plato to the present. Readings from the works of the major theorists. Examination of the relevance of their ideas to contemporary politics. (PT)

GOVT 181(1817) Introduction to International Relations (SBA)

Fall and summer. 3 credits. P. Katzenstein. Introduction to the basic concepts and practice of international politics. (IR)

**GOVT 182(1827) WIM Section:
Introduction to International
Relations**

Fall. 1 credit. Prerequisite: permission of instructor; GOVT 181. Staff.

Special, writing-intensive section of GOVT 181, designed to provide a small number of students the opportunity to practice and improve their writing skills as they learn about world politics. Students complete a series of papers and are expected to take an active part in class discussion. (IR)

**GOVT 202(2021) Honor and Obligation in
Conflict (HA)**

Spring. 4 credits. J. Rabkin.

Explores a key question in political life—why obey the law? Examines the question where answers are most difficult: in the extreme setting of international conflict in war and commerce, where normal policing is not available. Looks at ancient and medieval answers, as portrayed in literature of those eras. Then it highlights changes in successive modern—and now, perhaps, post-modern—efforts to sustain legal restraints beyond the reach of ordinary state controls, as illustrated in formal treaties and accounts of actual conflicts. (AM)

**GOVT 227(2273) SSP: The Atomic Age
(SBA)**

Fall. 4 credits. Limited to 15 students.
C. Way.

How has the advent of nuclear weapons changed world politics? In exploring this general question, this course addresses a wide range of issues: How do nuclear weapons work, and how difficult are they to obtain? Do nuclear weapons keep the peace by rendering war obsolete, or do they make the world a more dangerous place? What are the psychological effects of living with the specter of nuclear conflict? Are strategies of nuclear deterrence, which entail targeting civilians, ethically justified? Does the Nuclear Non-Proliferation Treaty (NPT) work, and what are the prospects for future proliferation? How likely is nuclear terrorism, and what can be done to prevent it? Students reflect on these issues theoretically and historically, but also in the context of particular current events, such as the nuclearization of South Asia, the 2005 Review Conference of the NPT, and the unraveling of the A.O. Khan network. Texts include film and literature as well as international relations literature, and writing assignments offer students the opportunity to explore a number of genres: policy memo, political research, film interpretation, fiction, and editorial. (CO)

This is a special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

**GOVT 248(2485) Ethics and International
Relations (also PHIL 248(2480))
(KCM)**

Spring. 4 credits. R. Miller.
For description, see PHIL 248. (PT)

**GOVT 261(2615) SSP: Feminist Theory/
State Theory (also FGSS 261(2610),
AM ST 263(2615)) (CA)**

Spring. 4 credits. A. M. Smith.
Feminist theory presents unique challenges to the student of politics interested in state structures, legal systems and public policy. While liberal democratic state theory takes for granted the separation between the "private" and "public" spheres, feminist theory submits that distinction to a thorough interrogation. Through the feminist theory lens, we can appreciate the way in which public policy not only impacts the domestic household, but actually shapes and defines the family itself through mechanisms such as family law, welfare policy, labor market regulation, and even residential zoning by-laws. Feminists also insist that the "personal" is "political." An individual woman might decide to use contraception or to practice safer sex in a highly intimate context, but feminist theory brings to light the fact that social movements, governmental agencies, and legal doctrine have set the stage for that personal decision. Feminist theory is therefore situated in a privileged position to shed new light on some of the most interesting issues in contemporary politics, such as same-sex marriage, abortion, the HIV and AIDS epidemic, stem cell research, access to health care, discrimination in the workplace, and poverty policy. This seminar explores feminist theory's interrogation of state theory. Pays particularly close attention to the feminist theory that explores the intersection between racism and sexism in America today. (PT)

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. Seminars offer discipline-intensive study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

**GOVT 282(2827) China and the World
(also CAPS 282(2827)) @ (CA)**

Spring. 3 credits. A. Carlson.
Study of the dramatic rise of China through reviewing major developments in contemporary Chinese foreign policy since the establishment of the People's Republic of China (PRC), and concentrating more specifically on major developments in Chinese foreign policy during the 1980s and 1990s. Such a wide-ranging survey of Chinese foreign policy involves not only a consideration of the evolution of China's relations with its major bilateral partners but also an investigation of how China has defined its broader relationship with the international system. In addition, students are asked to consider which causal factors have been of primary importance in motivating Chinese behavior. (IR)

GOVT 294(2947) Global Thinking @ (KCM)

Fall. 4 credits. H. Shue.
Existing nation-states face many challenges that cross their borders, including

environmental degradation, international terrorism, and global market forces. This course considers the possibility and desirability of a world government. Students evaluate the practical achievability of different world-level political structures, paying particular attention to contemporary theories of international relations, and to related questions of social-scientific evidence. Students also evaluate the ethical status of potential world-level political structures, evaluating the normative value of existing states compared to the likely dangers and benefits of several visions of world government. (IR)

**[GOVT 302(3021) Social Movements
in American Politics (also AM ST
302(3021)) (HA)]**

Fall. 4 credits. Next offered 2007–2008.
E. Sanders.

Analyzing a variety of movements from the late 19th century to the present, this course seeks answers to the following questions: What social and political conditions gave rise to these movements? What determined success or failure (and how should those terms be defined)? How do social movements affect political processes and institutions (and vice versa)? What is their legacy in politics and in patterns of social interaction? The major movements analyzed are populism; progressivism; labor; socialism; women's suffrage, the contemporary gender equality movement; protest movements of the 1930s; civil rights; SDS and antiwar movements of the 1960s; environmentalism; the 1980s anti-nuclear (weapons) movement; gay rights; and the new religious right. Some theoretical works are used, but most of the theoretical explorations are derived inductively, from studies of actual movements and the difficulties they faced. (AM)

**GOVT 303(3031) Imagining America (also
AM ST 326(3031), COM L 341(3410),
FRLIT 324(3240)) (CA)**

Fall. 4 credits. D. Rubenstein.
For description, see AM ST 326.

**GOVT 304(3043) Women and Politics
(also FGSS 304(3040)) (SBA)**

Spring. 4 credits. S. Martin.
Relies on case studies to examine gender and politics from a comparative perspective. Explores how political and economic transformations impact gender norms and family structures, thereby posing new challenges for governments in the ongoing tasks of nation-building and construction of a national identity. Topics include, but are not limited to (1) the changing social constructions of family; (2) families as agents of socialization; (3) government efforts to control women's re/productive capacities; (4) women's political mobilization; and (5) policy instruments used to re/produce ideal families. (CO, AM)

**GOVT 306(3063) Society and Party
Politics (also SOC 307(3070)) (SBA)**

Spring. 4 credits. S. Van Morgan.
For description, see SOC 307.

**GOVT 307(3071) Introduction to Public
Policy**

Summer. 4 credits. S. Jackson.
Public policy is shaped by many forces. This course will enhance your ability to understand those forces and the policies that they produce. It will provide you with tools for thinking about, assessing, and evaluating

those policies. And it will introduce you to the substantive core of several major issues in America today. The course will have three segments. In the first, we will examine the relevant institutions, interests, and ideologies which operate in the policy arena and the debates about the impact of these forces which engage students of the policy process. In the second, we will consider two different lenses through which we might peer to evaluate policies. In the third, we will discuss the main lines of debate in contemporary American politics concerning four substantive issues: crime and punishment, education, the economy and foreign trade, and foreign policy. The course will meet four days a week for one hour. Based on assigned readings, the class sessions will mix lectures, discussions, group activities, and guest speakers.

GOVT 309(3091) Science in the American Polity (also AM ST 389[3911], S&TS 391[3911]) (SBA)

Spring. 4 credits. S. Hilgartner.
For description, see S&TS 391.

[GOVT 311(3111) Urban Politics (also AM ST 311[3111]) (SBA)]

Fall. 4 credits. M. Shefter.
The major political actors, institutions, and political styles in large American cities: mayors, city councils, bureaucracies, ethnic and racial minorities, urban machine politics and the municipal reform movement. The implications of these political forces for policies pertaining to urban poverty, homelessness, and criminal justice.

GOVT 312(3128) America's Changing Faces (also AM ST 301[3121])

Summer. 2 credits. S. Jackson.
A new generation of leaders has emerged in America's political, economic, educational and cultural institutions. Those leaders employ and explore in their work modern communications technologies such as the Internet. Thereby, they are changing both what is done, and how things are done in the respective life spheres. This course explores the resulting changes in the nature of American life and asks questions about the interactions among the different realms of life. (AM)

GOVT 313(3131) The Nature, Functions, and Limits of Law (CA)

Spring. 4 credits. Prerequisite: undergraduate standing. R. Hilman.
General education course for students at the sophomore and higher levels. Law is presented not as a body of rules but as a set of varied techniques for resolving conflicts and dealing with social problems. The roles of courts, legislatures, and administrative agencies in the legal process is analyzed, considering also the constitutional limits on their power and practical limits of their effectiveness. Assigned readings consist mainly of judicial and administrative decisions, statutes and rules, and commentaries on the legal process. Students are expected to read assigned materials before each class and to be prepared for participation in class discussion. (AM)

[GOVT 314(3141) Prisons (also AM ST 315[3141]) (SBA)]

Fall. 4 credits. M. Katzenstein.
The focus of the course is on the politics of incarceration and the relationship of incarceration to our understanding of citizenship. Within this framework, we will look at questions about the influence of race on incarceration; how public opinion shapes

penal policies; how profits and the prison-industrial complex operate; and how political activism—both reformist and radical—engages with issues of criminal justice policy. Sections are a requirement of the course in addition to twice a week lectures; Requirements of the course will be largely essay and writing-based.

[GOVT 316(3161) The American Presidency (SBA)]

Spring. 4 credits. Next offered 2007–2008.
E. Sanders.]

GOVT 317(3171) Campaigns and Elections (SBA)

Fall. 4 credits. W. Mebane.
Examines campaigns and elections, focusing primarily on national elections in the United States. Topics include the relationship between elections and the economy, the weakness of the American party system, voter turnout, individual voting decisions, negative campaigning, and the noncompetitiveness of congressional elections. Examines several theories that explain these phenomena, including in particular the theory of rational choice. Course requirements include one or two papers based on original analysis of election survey data. (AM)

GOVT 318(3181) U.S. Congress (also AM ST 319[3181]) (SBA)

Spring. 4 credits. M. Shefter.
The role of Congress in the American political system. Topics include: the political setting within which Congress operates, the structure of Congress, the salient features of the legislative process, and recent congressional behavior in a number of policy areas. (AM)

GOVT 319(3191) Racial and Ethnic Politics (also AM ST 313[3191], LSP 319[3191]) (SBA)

Spring. 4 credits. M. Jones-Correa.
In 1965 the landscape of American politics changed dramatically with the passage of the Voting Rights Act. That same year, Congress passed the Immigration Reform Act, which though little heralded at the time, arguably has had equally profound effects. This course provides a general survey of minority politics in the United States, focusing on the effects of these two key pieces of legislation. The course highlights the relationships between immigrants and minorities, electoral politics and protest politics, and between cooperation and competition within and among minority groups. The purpose of the course is not only to pinpoint the similarities and differences in the agendas and strategies adopted by minority groups, but to indicate the interaction between "minority" politics and American politics as a whole. (AM)

GOVT 320(3201) Public Opinion and Public Choice (SBA)

Spring. 4 credits. Prerequisite: GOVT 111 or permission of instructor. W. Mebane.
A fundamental paradox in democracy is that a government the people control is only rarely a government that does what the people want. This is not to say that government *not* by the people is better (it is usually worse). This course explores this problem, contrasting the answers given by the concept of public opinion and the formal theory of social choice. The paradox is encountered in several American political institutions, including elections, legislatures, and bureaucracy. (AM)

[GOVT 326(3263) Building Better Democracies]

Fall. 4 credits. Next offered 2007–2008.
R. Weiner.]

[GOVT 327(3271) Civil Liberties in the United States (also AM ST 310[3271]) (KCM)]

Spring. 4 credits. Next offered 2007–2008.
J. Rabkin.]

[GOVT 328(3281) U.S. Supreme Court (also AM ST 328[3281]) (HA)]

Fall. 4 credits. Next offered 2007–2008 on Cornell campus. J. Rabkin.

Investigates the role of the Supreme Court in American politics and government. Traces the historical development of constitutional doctrine and the institutional role the court has played in American politics. (AM)]

[GOVT 329(3293) Comparative Politics of Latin America (also LAT A 329[3290]) @]

Fall. 4 credits. K. Roberts.
Provides an overview of political development in Latin America, emphasizing the interrelationships between socioeconomic and political change. Different theoretical perspectives are used to interpret national experiences and regional patterns of authoritarianism, populism, revolution, and democratization.

GOVT 330(3303) Politics of the Global North (also ILRIC 333[4330])

Fall. 4 credits. L. Turner.
For description, see ILRIC 333. (CO)

GOVT 332(3323) Modern European Politics (SBA)

Fall. 4 credits. H. Zimmermann.
Introduction to politics and political systems in Western Europe. Starts with a brief history of the consolidation of West European democracies before and after World War II. Next discusses core theoretical concepts guiding the comparative analysis of political systems. The main part of the course consists of a discussion of the political cultures, parties, electoral systems, and current problems confronting the political systems of Britain, France, Germany, and Italy. Italy and Germany are treated in depth. Hotly debated issues in European politics are presented by students in class and in a short research paper, before the course conclude with an analysis of the European Union (EU) as political system. (CO)

[GOVT 338(3383) Comparative Political Economy (SBA)]

Spring. 4 credits. Next offered 2007–2008.
C. Way.

Examines the juncture of politics and the economy in the advanced industrial democracies. Why do some countries have large, inclusive welfare states while others have minimal social programs? Is the welfare state in decline, and if so why? What difference does it make for the economy whether parties of the Left or Right govern? Are strong unions bad for the economy, or can they actually boost economic performance? What does increasing globalization of the world economy mean for the constraints and opportunities facing governments in managing the economy and providing social welfare? Are all market economies pretty much the same, or are there varieties of capitalism that differ in important ways—and can they survive in the face of globalization? This course uses a variety

of theoretical perspectives to investigate these and other questions, paying particular attention to evaluating the theoretical arguments with both systematic and historical evidence. (CO)

[GOVT 339(3393) Political Economy of Development @ (SBA)]

Spring. 4 credits. Next offered 2008-2009.
D. Moehler.]

[GOVT 341(3413) Modern European Society and Politics (also SOC 341(3410)) (SBA)]

Fall. 4 credits. S. Van Morgan.

A trip to the past and the future that examines the main economic and political transformations in Europe over the course of more than 600 years. Integrates theoretical and analytical insights from history, sociology, and political science to describe and interpret the rise and relative decline of Europe as a world actor. In particular, emphasizes the role of state competition and the drive toward capital accumulation, first within Europe and then on a global scale, in providing the impetus for Europe's political and economic dynamics. During this period, Europe invented and eventually transcended the nation-state. Simultaneously, its economy moved from agrarian to industrial, and then to postindustrial, from self-sufficiency to integration into global exchange networks encompassing populations, goods, services, and capital. At the formal level, the course combines lectures with multimedia materials. (CO)

[GOVT 342(3427) Germany and Europe]

Fall. 4 credits. P. Katzenstein.

German unification in 1990 and the accelerating movement toward European integration have created new political conditions for our understanding of German and European politics. The end of the Cold War has brought forth old fears about the domination of Europe by an unpredictable German giant. Alternatively, these changes have also fueled new hopes for Germany and Europe as models of political pluralism in a more peaceful and prosperous world. This course will thus reflect on two kinds of politics: the specter of the "Germanization" of Europe and the vision of the "Europeanization" of Germany. Liebert description for Fall 95: German unification, the collapse of the Soviet bloc and the accelerating movement towards European unification have focussed attention on the shape and significance of the "New Europe." These changes have fueled both new hope for European democracy and new problems for European integration, as new states join the Union and new strains emerge within it. The course will focus on intergovernmental comparisons of EU member states, on the emerging weight of Germany as the strongest state in the Union, as well as on supranational institutional and political developments in the 1990s.

[GOVT 343(3437) The Politics of European Union (SBA)]

Spring. 4 credits. H. Zimmermann.

Despite recent bad feelings, the countries constituting the European Union (EU) still remain the most important partners for the United States in the world. And despite the rise of China and other Asian countries, the EU, together with the United States, still calls the tune in the international economy. However, even citizens of the European

Union generally know very little about how this complex structure works. This course explores the policies and policy-making of the European Union against the backdrop of the postwar history of European integration and the institutional framework of the EU. Also considers the external dimension of the EU and explore current debates about the emerging European polity, in particular the European constitution. Throughout the course students reflect on parallels with the American political system and on the state of current transatlantic relations. (IR)

[GOVT 346(3463) Modern Japanese Politics (also ASIAN 346(3346)) @ (SBA)]

Spring. 4 credits. Next offered 2007-2008.
R. Weiner.]

[GOVT 351(3513) Politics of South Asia (also GOVT 735(7353))]

Spring. 4 credits. R. Herring.

How well do India's political institutions function in the face of the social and economic challenges of the 1990s? We will take up a range of issues that have been hotly debated in India over the last 10 years—economic restructuring, Hindu nationalism, child labor, gender inequality, among others—considering what these controversies reveal about the character of the Indian state. Each week will be organized around a controversial question as presented in articles, books, and films. (CO)

[GOVT 354(3549) Capitalism, Competition, and Conflict in the Global Economy (SBA)]

Fall. 4 credits. Next offered 2007-2008.
P. Katzenstein.

Unemployed autoworkers in Detroit and the wood stoves in New England signal an important change in America's relation to the world economy. This course characterizes these changes in a number of fields (trade, money, energy, technology), explains them as the result of the political choices of a declining imperial power that differs substantially for the choices of other states (Japan, Germany, Britain, France, the small European states, and Korea), and examines their consequences for America and international politics. (AM, CO, IR)

[GOVT 360(3605) Ideology (CA)]

Spring. 4 credits. D. Rubenstein.

Focuses on critical approaches to the study of ideology in order to understand the role of ideology in political subject formation. After an initial presentation of the classical Marxist texts on ideology, examines 20th-century reworkings of hegemony theorist Antonio Gramsci and the critical structuralist approaches of Roland Barthes, Jean Baudrillard and Dick Hebdige. Concentrates on the "lived relation" to ruling ideas in the form of ideologies of everyday life. The second part of the course is devoted to psychoanalytically oriented theories (Freud, Lacan) which address the internalization of belief, both in relation to the intrapsychic and in the interaction between psychic and state apparatuses. Concludes with Louis Althusser's notion of interpellation, which resumes the Marxist, structuralist and psychoanalytic objectives of the course material. The theorists in the second part of the course are contextualized within the experience of the historical traumas of fascism and French decolonization. Throughout the semester, students reflect on the continued relevance of

historic ideologies, centered around notions of class interest, to late 20th-century ideologies' attachments to national, religious, gendered, ethnic, technological identity. (PT)

[GOVT 361(3615) Liberalism and Its Critics # (KCM)]

Fall. 4 credits. B. Hendrix.

The term "Liberalism" refers to a broadly allied set of political theories and practices that focus on maximizing individual liberty, generally through the protection of personal rights. This course will consider both competing views within the liberal tradition, and challenges made by those outside it. The course begins with the historical origins of liberalism in European religious wars and changing coalitions of power, and moves forward through its major theorists (including Thomas Hobbes, John Locke, and John Stuart Mill) to the present day. We will then consider a variety of objections to liberalism, ranging from the very old (lodged by Plato) to the contemporary (by for example Michael Sandel and Michel Foucault). (PH)

[GOVT 362(3625) Modern Political Philosophy (also PHIL 346(3460)) (KCM)]

Fall. 4 credits. R. Miller.

For description, see PHIL 346. (PT)

[GOVT 363(3633) Politics and Culture (also SOC 248(2480)) (HA)]

Spring. 4 credits. M. Berezin.

For description, see SOC 248. (CO)

[GOVT 364(3645) Politics of "Nations Within" (also AIS 364(3640)) (SBA)]

Spring. 4 credits. B. Hendrix.

This political theory course will consider the political status of Native Americans in the United States, as well as the status of indigenous peoples in Canada, Australia, and New Zealand. We will begin with brief overviews of native peoples in the countries considered, with special attention to the history of their interactions with the states that now rule them, and their contemporary legal status. The course will consider the ideologies used to justify conquests and displacements by European colonists, particularly as illustrated in historical works of political theory and key court cases. The latter half of the course will consider the possible futures of these "nations within" by considering normative arguments about assimilation, cultural rights, treaty federalism, and full sovereign statehood. (PH)

[GOVT 365(3655) Politics and Literature (also AM ST 362(3655)) (LA)]

Fall. 4 credits. Next offered 2007-2008.

J. Frank.

What is political authority and how is it constituted? How do we judge and act when torn by conflicting obligations? How do political actors in the present negotiate the legacies of past injustice (e.g., slavery, colonialism, state violence)? To what extent does the past shape and determine our political present (our sense of self, our relations with others)? And where might we find the cultural resources for resistance and/or political transformation? These are some of the ethical and political questions pursued in this course through the study of prominent (and diverse) works of literature. This course examines the important contributions of literature to the study of politics, and to the formation of a more thoughtful, critical citizenship. (PT)

GOVT 366(3665) American Political Thought from Madison to Malcolm X (also HIST 316[3160], AM ST 376[3665]) # (HA)

Fall. 4 credits. I. Kramnick.

Survey of American political thought from the 18th century to the present. Particular attention is devoted to the persistence of liberal individualism in the American tradition. Politicians, pamphleteers, and poets provide the reading. Insightful historical and social context is offered.

[GOVT 375(3755) Visual Culture and Social Theory (CA)]

Fall. 4 credits. Next offered 2007–2008. S. Buck-Morss.]

GOVT 385(3857) American Foreign Policy (also CAPS 385[3857]) (SBA)

Spring. 4 credits. J. J. Suh.

Introduction to several aspects of U.S. foreign policy, emphasizing current concerns and organized in terms of several principal functions and regions of interest to U.S. foreign policy. Examines theories of foreign policy as well as specific historical/contemporary cases. This course has three basic goals: (1) to familiarize students with the importance of theory for describing, understanding, and explaining foreign policy decision making behavior; (2) to sensitize students to the complex constraints under which foreign policy is made, the margins of choice that statesmen have in shaping policy, and the intended and unintended consequences that a chosen policy has on international as well as domestic life; and (3) to help students develop a critical, in-depth understanding of some of the foreign policy issues that face the United States today and to encourage them to think creatively about alternatives. (IR)

GOVT 386(3867) The Causes of War (SBA)

Spring. 4 credits. C. Way.

Surveys leading theories of the causes of interstate war—that is, large-scale organized violence between the armed forces of states. Why is war a recurring feature of international politics? Are democracies more peaceful than other types of states, and if so what explains this “democratic peace”? Why do democratic publics seem to reward threats to use force by “rallying around the flag” in support of their governments? Does the inexorable pattern of the rise and fall of nations lead to cycles of great power wars throughout history? These and other questions are examined in this survey of theories of war at three levels of analysis: the individual and small groups, domestic politics, and the international system. Topics include: theoretical explanations for war; evaluation of the evidence for the various explanations; the impact of nuclear weapons on international politics; ethics and warfare; the uses and limitations of air power; international terrorism. (IR)

GOVT 389(3898) International Law (HA)

Fall. 4 credits. Taught in Washington, D.C. Is international law a pious delusion, helpless in the face of real power? Or is public policy becoming so entangled in international standards that international law is now eroding national sovereignty? This course surveys the theoretical foundations and general history of international law since the 17th century to highlight what is new in the doctrines and institutions by which it operates in the contemporary world. The course gives special

attention to the relation between international and U.S. law and to the workings of international law in particular fields—including environmental and human rights protection, trade regulation, and control of terrorism. (IR)

GOVT 393(3937) Introduction to Peace Studies (SBA)

Fall. 4 credits. M. Evangelista.

This course serves as an introduction to the study of war, peace, and peacemaking. We will study different theories of peace and war from a variety of disciplinary perspectives. The course will cover definitions of peace and war, causes of conflict, and modes of conflict prevention and resolution. The concepts will be applied to a range of historical and current conflicts. Students will prepare analyses of specific conflicts or instances of peacemaking for class presentation. (IR)

[GOVT 404(4041) American Political Development in the 20th Century (also AM ST 404[4041], GOVT 612[6121]) (HA)]

Fall. 4 credits. Next offered 2008–2009. E. Sanders.]

GOVT 405(4051) The Postmodern Presidency: 2004 (CA)

Spring. 4 credits. D. Rubenstein.

Examines the presidencies of Reagan, G. H. W. Bush, Clinton, and G. W. Bush in relation to what scholars have called “the postmodern presidency.” While this term has been used by institutionalist students of the presidency as a periodizing hypothesis, this course emphasizes the work of cultural critics and historians. Addresses the slippage between fact and fiction in cinematic and popular representations of the presidency (biography, novels, television). The construction of gender normativity (especially masculinity) is an attendant subtheme. The postmodern presidency is read as a site of political as well as cultural contestation. The larger question of this approach to the presidency concerns the relationship between everyday life practices and citizenship as well as the role of national fantasy in American political culture today. (AM)

GOVT 406(4061) Politics of Slow-Moving Crisis (also GOVT 616[6161], AM ST 406/616[4061/6161])

Fall. 4 credits. M. Jones-Correa.

An interdisciplinary seminar focusing on three interrelated “slow-moving policy crises”—population growth/change (aging, immigration), water availability and global warming—to introduce the concepts sketched out above. Each of these areas involved a policy area where the need for policy coordination is clear but the pressures for coordination are often somewhat removed, since the consequences of policy action or inaction may be felt only years down the road. There may also be a segment of the course on planning for, and the response to, low probability, high-risk events like Hurricane Katrina (and/or terrorism). (AM)

GOVT 413(4131) Coordination in American Politics (also GOVT 613[6131]) (SBA)

Spring. 4 credits. Prerequisites: for undergraduates, GOVT 111 and one 300-level course in American government, or permission of instructor. W. Mebane. For description, see GOVT 613.

[GOVT 420(4201) War at Home (also AM ST 422[4201]) (HA)]

Fall. 4 credits. Next offered 2007–2008. M. Shefter and J. Rabkin.]

GOVT 422(4221) Immigrants, Migrants and Metro. Governance (CA)

Spring. 4 credits. L. Frasure.

This course will examine how socioeconomic and political factors related to immigration and racial/ethnic migration impact metropolitan governance in both U.S. central-cities and suburban jurisdictions. We will consider some major issues in metropolitan governance through readings on pluralism, political power, regime theory, racial/economic segregation and the incorporation of immigrant and racial/ethnic groups. We will examine how metropolitan governments have traditionally balanced allocative versus distributive concerns of newcomers and existing groups. We will also examine the contemporary prospects for public-private-non-profit partnerships at the local government level. Students will participate in both theoretical and practical discussions and will be evaluated based on participation, short papers and a research design (final paper) covering a related topical area. (AM)

GOVT 423(4231) The 1960s: Conceptualizing the Future from the Past (also AM ST 425)

Fall. 4 credits. J. Kirshner and T. Lowi.

The decade of the 1960s was a genuine sea change in American history. 1968 was its culmination and remains its symbol. Politically it was the end of the great Roosevelt Revolution and Democratic party hegemony, the end of consensus on rights, the end of liberalism, and the end of world bipolarity. It was also the end of American economic sovereignty. And it was the end of the arts as pure entertainment. Was it the end of everything? What was the response to “1968”? Cultural as well as political and economic phenomena must be explored. The seminar divides neatly and naturally between ends and beginnings. (AM)

GOVT 424(4241) Contemporary American Politics (also AM ST 424[4241], GOVT 629[6291]) (HA)

Fall. 4 credits. M. Shefter.

Seminar analyzing some major changes in U.S. electoral and group politics in recent decades. Topics include: partisan realignment, the new conservatism, racial cleavages, “identity politics,” and democratic decline.

[GOVT 425(4255) The Totalitarian Order: Vision and Critique (also GERST 424[4240]) (CA)]

Fall. 4 credits. Next offered 2007–2008. P. Hohendahl. (PT)]

GOVT 428(4281) Government and Public Policy: An Introduction to Analysis and Criticism (also AM ST 428[4281]) (SBA)

Fall. 4 credits. T. J. Lowi.

Concentrates on history and criticism of U.S. policies and the politics associated with them. Particular attention is given to the origins and character of the regulatory state and the welfare system. (AM)

GOVT 431(4313) Model European Union I

Spring. 2 credits. Staff.

For description, see GOVT web site.

GOVT 432(4323) Model European Union II

Fall. 2 credits. Staff.

For description, see GOVT web site.

[GOVT 439(4393) Japanese Politics (also ASIAN 439(4439)) @ (SBA)]

Fall. 4 credits. Next offered 2007-2008.

R. Weiner.]

[GOVT 458(4585) American Political Thought (also GOVT 658(6585), AM ST 458(4585))]

Spring. 4 credits. Next offered 2008-2009.

J. Frank.

Seminar providing an advanced survey of the history of American political thought, with emphasis placed on four significant periods: Puritan New England, the Revolution and Founding, Abolition and Civil War, and the Progressive Era. Authors read may include: Winthrop, Hutchinson, Franklin, Paine, Jefferson, Madison, Warren, Tocqueville, Fitzhugh, Calhoun, Douglas, Garrison, Thoreau, Melville, Whitman, Lincoln, Adams, DuBois, Goldman, Dewey, Lippmann, Taylor, and Bourne. (PT)

GOVT 462(4625) Sexuality and the Law (also GOVT 762(7625), FGSS 461/762(4610/7620)) (KCM)

Spring. 4 credits. A. M. Smith.

For description, see GOVT 762. (PT)

[GOVT 466(4665) Topics Pol Phil: Islamism @]

Spring. 4 credits. Prerequisite: graduate students or juniors and seniors who have taken GOVT 161 or 300-level course in political theory. Next offered 2008-2009. S. Buck-Morss.

Topics vary, but all analyze texts written by non-European and non-U.S. theorists who have inspired modern political and social movements. Attention is given to the political and theoretical presuppositions embedded in the very conception of the "West," the hegemony of its political discourses, and how these figure into the meanings of "modernity," "progress," "universal rights," and "liberation." In fall 2002 the topic was Islamism. Philosophical texts include those by Ayatollah Ruhallah Khomeini, Hassan al-Banna, Muhammad Iqbal, Ustadh Mahmoud, Sayyid Qutb, and Ali Shariati. Commentaries include those by academic scholars: Mohammed Arkoun, Talal Asad, Saba Mahmood, Bobby Sayyid, Azzam Tamini, Bassam Tibi, as well as historical and social-scientific analyses of political events influenced by Islamism. (In alternate years, Latin American and Caribbean writers and social movements are the focus.) (PT)

GOVT 470(4705) Contemporary Reading of the Ancients (also FRLIT 470(4700), COM L 475(4750)) (CA)

Fall. 4 credits. Graduate students welcome to enroll. D. Rubenstein.

Focuses on Derrida's reading of Plato and St. Augustine. Begins with Derrida's close reading of Plato's Phaedrus and traces his conceptual adumbration of the pharmakon to other critical and philosophical scenes: addiction and terrorism. The next textual encounter is between St. Augustine's Confessions and Derrida's Circonfession. Considers the questions of national and religious identity in relation to other Derridean texts such as Monolingualism of the Other. Returns to conclude with Plato's Apology, Crito and Phaedo, read in tension with Derrida's last

extended interview, his writings on death and the death penalty. Throughout the seminar students explore Derrida's conceptual interrogation of globalization, citizenship, hospitality, friendship, pedagogy, eros and death. (PT)

GOVT 471(4715) Critical Reason, The Basics: Kant, Hegel, Marx, Adorno (also GERST 471(4710)) (KCM)

Fall. 4 credits. S. Buck-Morss.

This course deals with basic concepts and methods of Critical Theory from Kant to Adorno. Lectures will consider philosophy from the perspective of the political, demonstrating how autonomy, freedom, democracy, and law are approached by the following: critical reason, dialectics, materialist epistemology, and the socio-logics of non-identity. Students will tackle difficult primary texts in this tradition, with the goal of enhancing their own critical capacities to analyze political, social and economic life. (PT)

GOVT 480(4809) Politics of '70s Films (SBA)

Spring. 4 credits. J. Kirshner.

The ten years from 1967 to 1976 were an extraordinary time both in the history of American politics and in the history of American film. In the same period that the country was rocked by the Vietnam War, the feminist and civil rights movements, Watergate and economic crisis, the end of Hollywood censorship along with demographic and economic change in the industry ushered in what many call "the last golden age" of American film. In this class we study both film theory and political history to examine these remarkable films and the political context in which they were forged. The goal of the course is to take seriously both the films and their politics. (AM or PT)

GOVT 482(4827) Unifying White Integrating: China and the World (also GOVT 682(6827)) @ (HA)

Fall. 4 credits. A. Carlson.

Seminar intended to examine the increasingly complex relationship that has evolved between China and the rest of the international system during the 1980s and 1990s. Emphasizes the interrelated, yet often contradictory, challenges facing Beijing in regard to the task of furthering the cause of national unity while promoting policies of integration with international society and interdependence with the global economy. Concentrates especially on ongoing controversies over the rise of Chinese nationalism and the persistence of "minority nationalism" in many regions within China. (IR)

GOVT 483(4837) The Military and New Technology (also S&TS 483(4831)) (SBA)

Spring. 4 credits. K. Vogel.

Military organizations are seen paradoxically as both inflexible, hide-bound institutions and avid proponents of new technology. This seminar examines changes over time in the attitude of the military toward new technology and analyze competing explanations, including concepts from science studies, for these changes. Concludes with an analysis of the so-called "Revolution in Military Affairs." Readings include John Ellis, *The Social History of the Machine Gun*, and Steven Rosen, *Winning the Next War*. (IR)

GOVT 490(4907) International Institutions (SBA)

Spring. 4 credits. J. J. Suh.

Study of the ways in which units in the international system are constituted and how their interactions are institutionalized. Examines not only formal international organizations that have formal decision-making rules and palpable entities, but also "settled practices" that legitimize certain actions and de-legitimize others. Students develop our theoretical understanding of international institutions by analyzing such issue areas as decolonization, human rights, the environment, and communications. (IR)

GOVT 491(4917) Normative Issues in International Relations

Spring. 4 credits. M. Evangelista.

This course examines current and historical issues in international relations from the perspective of international law, norms, and ethics. We develop general principles and concepts, such as "just war," "national interest," and "human rights," and apply them to real-world situations. Most of the focus of the course is on particular cases that involve legal and ethical issues: violations of human rights and genocide; war crimes; military intervention; economic sanctions; environmental degradation; economic injustice. The first part of the course examines these issues using examples from 20th century international affairs, including recent events. The second part focuses on current issues that pose ethical problems for the foreign policy of the United States: internal violence and human rights abuses in the former Yugoslavia and former Soviet Union; indigenous uprisings in Mexico and their relation to U.S. foreign economic policy; the appropriate U.S. response to situations in countries such as Haiti, Nigeria, and China.

GOVT 494(4949) Honors Seminar: Thesis Clarification and Research

Fall. 4 credits. Prerequisite: acceptance into honors program. R. Benschel.

Designed to support thesis writers in the honors program during the early stages of their research projects.

GOVT 495(4959) Honors Thesis: Research and Writing

Spring. 4 credits. Prerequisite: successful completion of GOVT 494.

GOVT 499(4999) Undergraduate Independent Study

Fall or spring. 1-4 credits.

One-on-one tutorial arranged by the student with a faculty member of his or her choosing. Open to government majors doing superior work, and it is the responsibility of the student to establish the research proposal and to find a faculty sponsor. Applicants for independent study must present a well-defined program of study that cannot be satisfied by pursuing courses in the regularly scheduled curriculum. No more than four credits of independent study may count toward fulfillment of the major. Students who elect to continue taking this course for more than one semester must select a new theme or subject each semester. Credit can be given only for work that results in a satisfactory amount of writing. Emphasis is on the capacity to subject a body of related readings to analysis and criticism. Keep in mind that independent study cannot be used to fulfill the seminar requirement. The application form for independent study is available in

210 White Hall and must be completed at the beginning of the semester in which the course is being taken.

GOVT 500(4998) Politics and Policy: Theory, Research, and Practice (also AM ST 501[4998], PAM 406[4060], ALS 500[4998])

Fall, spring. Offered in Cornell in Washington Program.

This required course forms the core of the Cornell in Washington program for students in the public policy option. The central course objective is to provide students with the instruction and guidance necessary to analyze and evaluate their own chosen issue in public policy. Toward that end, the course has three components: (1) weekly lectures providing background on the structures and processes of national politics and policy as well as training in research methodology; (2) student externships; and (3) individual research papers or projects. All three components interrelate so as to provide students with a strategy and framework for integrating classroom based learning, field experience and individual research.

GOVT 601(6019) Methods of Political Analysis I

Fall. 4 credits. W. Mebane.

The first half of this course examines how to frame, evaluate, and compare empirical explanations in political science. Introduces several theoretical approaches that have been widely applied in political science research, including rational choice, social mechanisms, and functionalism. Students discuss the differences between explanation and description, emphasizing the idea of experimental manipulation. Building on this general discussion, the second half explores the distinctive methodological issues involved in comparing macro-social units and surveys a range of different approaches to comparative analysis.

GOVT 602(6029) Methods of Political Analysis II

Spring. 4 credits. Staff.

Introduction to some of the quantitative methods used in political science. The central theme of the course consists in applying quantitative methods to explore and evaluate political science theories. Specific topics include probability theory; concepts of inference, including point estimation, confidence intervals, and hypothesis testing; strategies of data analysis and presentation; and regression. The goal is to provide students with basic familiarity with statistics and econometrics for studying politics, and to lay a solid foundation for further course work for those who choose to pursue quantitative analysis in more depth.

GOVT 603(6031) Field Seminar in American Politics

Spring. 4 credits. E. Sanders.

Introduces the major issues, approaches, and institutions of American government and the various subfields of American politics. Focuses on both substantive information and theoretical analysis. (AM)

GOVT 605(6053) The Comparative Method in International and Comparative Politics

Spring. 4 credits. K. Roberts.

An in-depth, graduate-level introduction to qualitative and comparative methods of political analysis, with special emphasis on the application of these methods in comparative and international politics. Through readings, discussions, and written assignments, students will explore strategies for concept formation, theory construction, and theory testing, using the craft and tools of comparative political analysis.

GOVT 606(6067) Field Seminar in International Relations

Fall. 4 credits. A. Carlson.

General survey of the literature and propositions of the international relations field. Criteria are developed for judging theoretical propositions and are applied to the major findings. Participants are expected to do extensive reading in the literature as well as research. (IR)

GOVT 607(6075) Field Seminar in Political Thought

Fall. 4 credits. I. Kramnick.

A survey of the early modern political theory canon, emphasizing texts and writers from the 17th and 18th centuries. (PT)

[GOVT 610(6101) Political Identity: Race, Ethnicity, and Nationalism

Fall. 4 credits. Next offered 2007–2008.

M. Jones-Correa.

The social sciences generally treat ethnicity, nationalism, and race as descriptive categories or variables, while avoiding actually defining these categories or thinking about how they should be used. How should we go about describing ethnicity, nationalism, and race? Should we treat them as primordial or as social constructions? Much of the recent literature suggests the latter. If constructed, by whom are they constructed (or by what)? What constrains/structures these constructions? What purposes do these constructions serve? Whom do they serve? Are some constructions better representations of identity than others, and what does this mean? How should we go about applying these categories in political analysis? (AM)

[GOVT 611(6111) The Political Economy of American Development, 1860 to 1900

Spring. 4 credits. Next offered 2007–2008. R. Bensel.]

[GOVT 612(6121) American Political Development in the 20th Century (also AM ST/GOVT 404[4041])

Fall. 4 credits. Next offered 2007–2008. E. Sanders.]

GOVT 613(6131) Coordination in American Politics (also GOVT 413[4131])

Spring. 4 credits. Prerequisites for undergraduates: GOVT 111 and one 300-level course in American government, or permission of the instructor. W. Mebane.

Seminar examining the idea that American voters act in a strategically coordinated way. Are voters as wary of one another as they are of politicians? Students examine how coordination depends on American institutions, especially the separation of powers and the political parties. They also look at how large-scale coordination, which implies collective equilibrium, need

not depend on individuals being highly informed and rational. Students consider how coordination and strategic voting affect the parties' campaign strategies, and what coordination implies about popular control of the government.

GOVT 615(6151) State and Economy in Comparative Perspective

Spring. 4 credits. R. Bensel.

Reviews the extensive literature on the political economy of comparative state formation, economic development, and institutional change. Topics include war-making and state expansion, regime evolution and modernization, and market processes and class transformation. The focus ranges from the micro-economic foundations of political choice through the grand historical forces that have shaped the contemporary world economy. Although much of the reading and discussion focuses on European cases, the limits of this experience as a theoretical model for the remainder of the world also are considered. (AM)

[GOVT 621(6213) Democratic Institutions

Fall. 4 credits. Next offered 2007–2008.

R. Weiner.

Institutions and constitutions establish the "rules of the game" of democracies. This seminar examines how they emerge and evolve, and how—or whether—they shape democratic stability, policy profiles, party systems, political participation, and quality of governance, among other phenomena. Examines both established and new democracies (with the United States among its major cases). (CO)]

GOVT 627(6274) People, Markets, and Democracy

Spring. 4 credits. C. Anderson.

Examines the relationship between the economy and democracy. Focuses on behavioral political economy in democratic or democratizing countries. Major topics include inequality and democratic performance.

GOVT 629(6291) Contemporary American Politics (also GOVT 424[4241])

Fall. 4 credits. M. Shefter.

For description, see GOVT 424. (AM)

GOVT 634(6349) New Life Sciences: Emerging Technologies, Emerging Politics (also S&TS 645[6451])

For description, see S&TS 645.

[GOVT 639(6393) Comparative Political Participation

Fall. 4 credits. S. Martin.]

GOVT 641(6413) Revitalizing Labor: A Comparative Perspective (also ILRIC 632[6320])

Spring. 4 credits. L. Turner.

For description, see ILRIC 632.

GOVT 642(6423) Feminist Methodology (also FGSS 617[6170])

Spring. 4 credits. S. Martin.

For description, see FGSS 617.

[GOVT 651(6511) Natural Law and the Law of Nations

Spring. 4 credits. Next offered 2007–2008. J. Rabkin.

Governments have assumed the existence of international law—or the law of nations—for centuries. Before today's network of multilateral treaties and international organizations, thinking about the law of nations was guided by notions about the

most fundamental obligations in the law of nature. The same law of nature was thought to provide the moral foundations of domestic law. In today's world, when such categories as "domestic" seem questionable, there is renewed interest in philosophic foundations for international law. This course will survey the range of arguments advanced about natural law and international justice, from late medieval times to the 20th century, with particular emphasis on doctrines and assumptions invoked by American statesmen. (AM)

[GOVT 657(6573) Comparative Democratization]

Fall. 4 credits. Next offered 2008-2009.
V. Bunce and D. Moehler.]

[GOVT 658(6585) American Political Thought (also GOVT/AM ST 458[4585])]

Spring. 4 credits. Next offered 2008-2009.
J. Frank.
For description, see GOVT 458.]

[GOVT 659(6595) Ethics and Cultural Difference]

Spring. 4 credits. B. Hendrix.
One of the persistent questions in moral thinking is its appropriate degree of generality. Can we make moral claims that have universal applicability? What would it mean for such claims to be valid? If there are some universal moral principles, which ones might they be? These abstract theoretical concerns are tied to obvious political worries: Are claims about universal moral principles often colonialist justifications for oppression? Do theoretical arguments about moral universals have meaning for real people entrenched in actual political structures? What is the role of political theorists themselves in arguments about culture and morality? Authors to be read include Michele Moody-Adams, Michael Walzer, James Tully, Iris Young, Will Kymlicka, and others. (PT)

[GOVT 660(6603) States and Social Movements (also SOC 660[6600])]

Spring. 4 credits. S. Tarrow.
Two traditions run parallel in political sociology and comparative politics: the study of statebuilding and state transformation and the study of social movements and contentious politics. In the 1960s and 1970s, they converged in the work of scholars like Charles Tilly, who advanced both fields of study, which then ran along parallel but largely independent tracks. This course seeks to synthesize the two traditions, drawing on both historical and contemporary materials from Europe and the Third World, and searching for the key mechanisms and processes that link forms of contention to processes of statebuilding and state transformation. (CO)

[GOVT 661(6615) Secession, Intervention, and Just-War Theory]

Spring. 4 credits. B. Hendrix.
This course examines philosophical viewpoints on secession, military intervention, legitimate reasons to go to war, and justice in prosecuting wars. Roughly the first half of the course will focus on the discussion of secession, while the second half will investigate intervention and war. Central texts include Allen Buchanan, *Secession*; David Miller, *On Nationality*; and Michael Walzer, *Just and Unjust Wars*.

[GOVT 662(6625) Field Seminar in Political Theory]

Fall. 4 credits. J. Frank.
Introduces students to several contemporary approaches to political theorizing, with an emphasis placed on different modes of interpretation. Authors read may include: Althusser, Arendt, Butler, Foucault, Habermas, Kristeva, MacIntyre, Skinner, Strauss, Taylor, Wolin, and Zizek. (PT)

[GOVT 664(6645) Democratic Theory (also AM ST 664[6645])]

Fall. 4 credits. J. Frank.
In contemporary political contexts "democracy" is often invoked as the very ground of political legitimacy. There is very little agreement, however, on what democracy means or how it is best embodied in state institutions and law. This seminar will introduce students to select debates in contemporary democratic theory over the normative meaning of democracy and the limitations of contemporary democratic practice. Beginning with the work of Rousseau and ending with debates over "radical democracy," we will explore the following themes: How do democratic theorists and democratic actors negotiate the paradoxes of collective self-rule? What is the relationship between liberalism and democracy? Do rights suspend democracy or establish its preconditions? What are the best procedures for democratic decision-making? How does democracy deal with difference? Is democracy best understood as a form of government or a practice of resistance to domination? (PT)

[GOVT 666(6665) Media Theory: Film and Photograph (also VISST 666[6466])]

Spring. 4 credits. D. Rubenstein.
Seminar addressing two concerns: the specifically French contribution to visual theory in relation to the media of television, film, and photography, and the political stakes of that theory in relation to larger issues of globalization, in which both image and event are subjected to ever-increasing pressures. To what extent is French media theory a response to tele-technological imperatives? Begins with a consideration of television and the televisual, framed by Jacques Lacan's radio address, "Television," and Pierre Bourdieu's "On Television." Questions of hegemony, institution, and audience induce further interrogation of the status of the virtual and the "operational fetishism" of television in Baudrillard, Derrida, and Virillio. Next the course considers differences between the televisual and cinematic image in relation to three canonical texts: Deleuze's *Cinema* (I & II), Michel Chion's *The Voice in Cinema*, and Christian Metz's *Imaginary Signifier* (as well as selections by Debord). Concludes with an examination of canonical writing on photography (Barthes, Bourdieu) and recent writings of Baudrillard that returns to the question of the digital and numeric's "murder" of the image as well as its political consequences post 9/11. (PT)

[GOVT 669(6695) Modern Social Theory I (also GERST 669[6690], VISST 670[6470])]

Fall. 4 credits. S. Buck-Morss.
Topics vary. (PT)

[GOVT 670(6705) Modern Social Theory II (also GERST 670[6700], VISST 670[6470])]

Spring. 4 credits. Next offered 2007-2008.
S. Buck-Morss.
Topics vary. (PT)

[GOVT 677(6775) Language and Politics]

Spring. 4 credits. J. Frank.
This course explores the "linguistic turn" of recent political theory alongside canonical debates over the political and epistemological consequences of different philosophies of language. Writers examined will include Locke, Rousseau, Nietzsche, Wittgenstein, Austin, Derrida, Butler, and Cavell.

[GOVT 681(6817) Politics of Transnationalism (also SOC 680[6800])]

Spring. 4 credits. M. Evangelista and S. Tarrow.
Globalization and internationalization are giving rise to a new area of international studies that examines the interactions of civil society actors with one another, with states, and with international institutions. This course traces the development of this area of research from its origins in the "old" transnational politics; examines the contributions of constructivism, liberal internationalism, and state-centered realism, and focuses on four areas of transnational politics: norm formation, the construction of transnational coalitions, the effects of transnational advocacy networks, and whether there is a growing fusion between international and domestic contention. (IR)

[GOVT 682(6827) Unifying While Integrating: China and the World (also GOVT 482[4827])]

Spring. 4 credits. A. Carlson.
For description, see GOVT 482.

[GOVT 685(6857) International Political Economy]

Spring. 4 credits. Next offered 2008-2009.
P. Katzenstein.
Exploration into a range of contemporary theories and research topics in the field of international political economy. The seminar covers different theoretical perspectives and a number of substantive problems. (IR)

[GOVT 688(6887) Political Economy and National Security]

Spring. 4 credits. J. Kirshner.
This seminar considers the relationship between economics and national security. Specific topics will change from year to year, but will typically include the following: the economic foundations of power, economic coercion, the economic roots of conflict, and the ways in which structural changes in the international economy shape and limit state authority. (IR)

[GOVT 689(6897) International Security Politics]

Spring. 4 credits. C. Way.
Examines a variety of international relations theories in studying a broad range of security issues, including the causes of war, alliance formation, balance-of-power politics, security regimes, nuclear and conventional deterrence, the democratic peace, military strategy, international terrorism, and domestic constraints on the use of force. Uses a variety of theoretical perspective to investigate these and other issues, paying particular attention to evaluating the theoretical arguments with both historical and systematic evidence. (IR)

[GOVT 691(6917) Normative Issues in IR

Fall. Next offered 2007–2008. H. Shue.

Examines selected normative elements of international affairs, divided into three interlocking clusters. First are issues about conflict, including both low-intensity military intervention and nuclear weapons. Second are questions about cooperation, especially between rich nations and poor nations. Third are debates about the authority and status of the major players in the international system: individual persons, nation-states, and international regimes. Questions considered include: is the retention by some nations of nuclear weapons morally justified? Is the world economy unjust? Should national governments be pressured to respect individual human rights? (IR)

GOVT 692(6927) Administration of Agriculture and Rural Development (also IARD 603(6060))

Spring. 4 credits. N. Uphoff and T. W. Tucker.

For description, see IARD 603.

GOVT 699(6999) CPAs Weekly Colloquium

Fall, spring. 1 credit. S-U grades only. Staff. Colloquium is the weekly seminar series hosted by the Cornell Institute for Public Affairs (CIPA). It is also a required, 1-credit course for all CIPA Fellows and is graded S-U based on attendance. The colloquium series is a collaborative effort between the CIPA Colloquium Committee and the faculty and staff of CIPA.

GOVT 703(7035) Political Economy

Fall. 4 credits. J. Kirshner.

This course will undertake a general survey of the classical and modern theories of political economy. The works of Smith, Keynes, Shumpeter, and Hayek, among others, will be studied and placed within the context of the history and evolution of the thought, practice, and method of the field. Issues pertaining to the politics of macroeconomics and money will be of prominent (but not exclusive) interest in the course. (PT)

GOVT 706(7063) Labor in Global Cities (also ILRCB 706(7060))

Fall. 4 credits. L. Turner.

For description, see ILRCB 706. (CO)

GOVT 707(7073) Game Theory for Political Science

Fall. 4 credits. Requires no prior training in game theory or formal methods. R. Weiner. Game theory is a tool for studying strategic interaction. This course offers a critical introduction, with applications to comparative politics, American politics, and international relations. Studies the core concepts of game theory; how to formulate, solve, and empirically test games in ways that help advance research; and how to assess game-theoretic arguments in the political science literature.

GOVT 728(7281) Government and Public Policy

Fall. 4 credits. T. J. Lowi.

For description, see GOVT 428. (AM)

GOVT 735(7353) Politics of South Asia (also GOVT 351(3513))

Spring. 4 credits. R. Herring.

For description, see GOVT 351. (CO)

GOVT 760(7605) Theoretical Approaches to Ideology

Fall. 4 credits. A. M. Smith.

Investigation of what is casually referred to as the "politics of meaning" is of course central to political theory and political science as a whole. However, profound controversies revolve around the definition of "ideology," its relationship to the interests of dominant groups, the means by which it is circulated throughout diverse social sites, the ability of political agents to interrupt institutionalized ideologies, and the processes by which ideology penetrates and reconstructs the worldviews of the dominated. The groundwork for the seminar is laid by examining key texts on ideology by Marx. Students trace the multiple meanings of the term in his work and their various implications. Next they explore the ways in which the study of gendered and racial discourse has transformed our understanding of ideology. Students address the Freudian and Lacanian interventions in ideology studies with respect to the concepts of the unconscious and misidentification. They discuss the ways in which Adorno, Horkheimer, and Habermas have re-articulated Marx's formulations. The structuralist and post-structuralist schools are studied with reference to Saussure, Levi-Strauss, Barthes, and Althusser. Finally, students explore the problem of institutional analysis with reference to texts from the science and technology studies and state theory traditions. (PT)

GOVT 762(7625) Sexuality and the Law (also GOVT 462(4625), FGSS 461/762(4610/7620))

Spring. 4 credits. A. M. Smith.

Advanced feminist theory/political theory/queer theory/legal theory seminar for graduate students and law students. Deals first with theoretical approaches to sexuality that build on and interrogate the post-structuralist approach that defines sexuality as a social construction, rather than an expression of a-historical instincts. Explores a series of major legal and political issues: the right to privacy with respect to contraception and abortion; the restriction of abortion rights; the exclusion of homosexual sodomy from the practices protected by the right to privacy; the racial regulation of marriage; same-sex marriage; Fineman's "sexual family" critique of family law; the moral regulation of poor women in early welfare law; the sexual regulation of poor single mothers in contemporary welfare law; the question of suspect class status for lesbians and gay men; and homosexuality and military service. Throughout the course, students examine the extent to which sexuality is constructed in articulation with gender, class and race differences. The reading list includes theoretical works (Foucault, Butler, Cohen and Martin), Supreme Court decisions; and critical commentaries by feminist legal theorists. (PT)

GOVT 799(7999) Independent Study

Fall or spring. 4 credits. Not open to undergraduates. Undergraduates wishing to conduct supervised study should register for GOVT 499.

Individualized readings and research for graduate students. Topics, readings, and writing requirements are designed through consultation between the student and the instructor. Graduate students in government who are looking to use this as an option to fulfill their course requirements should

check with their chairs to be certain that the program of study is acceptable for this purpose. Applications must be completed and signed by the instructor and by the chairs of their special committees. They are available from, and must be returned to, the graduate assistant in 212 White Hall.

GREEK

See "Department of Classics."

HEBREW

See "Department of Near Eastern Studies."

HINDI-URDU

See "Department of Asian Studies."

HISTORY

J. V. Koschmann, chair (fall); R. Lawrence Moore, chair (spring); M. C. Garcia, director of graduate studies; R. Polenberg (fall), M. B. Norton (spring), director of undergraduate studies; E. Baptist, S. Blumin, V. Caron, H. Case, D. Chang, J. Chen, Z. Chen, S. Cochran, D. Corpis, R. Craib, P. Dear, O. Falk, M. C. Garcia, D. Ghosh, K. Graubart, S. Greene, T. J. Hinrichs, K. Hirano, I. Hull, P. Hyams, C. Kammen, M. Kammen, S. Kaplan, D. Lacapra, F. Logevall, T. Loos, R. Moore, J. Najemy, M. B. Norton, J. Parmenter, R. Polenberg, W. Provine, H. Rawlings, E. Rebillard, M. Roldan, A. Sachs, B. Strauss, E. Tagliacozzo, T. R. Travers, M. Washington, R. Weil, J. Weiss. Emeritus: D. Baugh, J. John, W. LaFeber, C. Peterson, W. Pinter, J. Silbey, F. Somkin, B. Tierney, D. Wyatt.

The popularity of history among Cornell students is due to its usefulness as preparation for graduate, professional, or law school and for any career that requires critical thinking and good writing; the reputation of the faculty for scholarship, teaching, and advising; and most of all, the intrinsic interest of the discipline. A wide variety of introductory and advanced courses is offered. The department is particularly strong in ancient, medieval, and modern European history; in American, Latin American, and Asian history; and in the history of science.

Advanced Placement

Students who pass the AP American and/or European History exam with a score of 4 or 5 have two options: (1) use the AP credits to fulfill the Arts and Sciences course credit requirements for graduation, or (2) take introductory American and/or European history courses.

The Major

To complete the history major, a student must fulfill the requirements listed below:

Entry requirement: completion of *any* two history courses excluding first-year writing seminars.

1. Take nine history department courses (for either 3 or 4 credits each), completing all of them with a grade of C or better. (Courses taken for entry may count toward fulfilling the major.)
2. Of the total nine courses:
 - a. four must be in courses designated as outside U.S. history and
 - b. three must be in courses designated as history before 1800.

Courses used to fulfill requirement (1) above may also be used to fulfill requirement (2), in respect both to (a) and (b) if applicable. A course in American history before 1800 may be used to fulfill requirement (2b). A course before 1800 in a field other than American history can be used toward fulfillment of both requirements (2a) and (2b).

A list of those courses that fulfill the "outside U.S." and "pre-1800" requirements is maintained by the History Department. Only courses from that list fulfill these requirements.

3. Two of the nine courses must be seminars, of which one must be a 400-level seminar. HIST 400 may be used to fulfill this requirement.

Honors

The history department offers an honors program for students who wish to research and write a thesis during their senior year. In addition to fulfilling the thesis, honors students must maintain a 3.5 average in their history courses, take HIST 400 Honors Proseminar during their junior year plus an additional 400-level seminar, preferably during their junior year, and complete 10 courses in history (for 3 or 4 credits each). During the second semester of the sophomore year or early in the junior year, interested students should speak to a faculty member or faculty advisor about the honors program.

Before the beginning of the senior year, the candidate presents, in conversation or in writing, a thesis proposal to an appropriate member of the faculty. The faculty member who approves the proposal ordinarily becomes the thesis supervisor. If for any reason it is necessary to change supervisors, this arrangement should be confirmed no later than the fourth week after the beginning of the candidate's senior year.

Honors candidates should register in HIST 401, a seminar course in honors research. Any exceptions to this must be approved by the Honors Committee. HIST 401 is a 4-credit course that permits honors candidates to conduct research and to begin writing the honors essay in a seminar environment. At the end of the first semester of the senior year, as part of the requirements for HIST 401, the student submits to the supervisor a 10- to 15-page overview, or, alternatively, a preliminary draft of some part of the thesis along with an outline of the whole to the instructor of 401 and to the student's supervisor. HIST 402 is a 4-credit seminar course that permits honors

candidates to complete the honors essay and to demonstrate their understanding of the ways in which the themes explored in the thesis fit into a larger historical context.

The completed thesis is evaluated by three readers, including the supervisor and a first reader selected by the student, in consultation with his or her supervisor.

The text of the honors essay may not exceed 60 pages except by permission of the chair of the Honors Committee and the student's supervisor. Two copies are due during the third or fourth week of April. In May each honors candidate is given an oral exam administered by the supervisor; exam focuses on the essay as well as the specific subfield of history in which the student has conducted research (e.g., Periclean Athens, 17th-century science, 19th-century American politics).

To qualify for a bachelor of arts degree with honors in history, a student must (1) sustain at least a 3.5 cumulative average in all history courses and (2) earn at least a cum laude grade on the honors essay and on the oral exam.

Cornell in Washington Program. History majors may apply to the Cornell in Washington program to take courses and undertake a closely supervised externship during a fall or spring semester.

Category Key: Courses in History are broken into different categories. To determine which category(s) a course falls in, please note the reference at the end of each course description. The key is as follows: AF = African History, AM = American History, AS = Asian History, CO = Comparative History, EA = Ancient European History, ER = Renaissance & Medieval History, EM = Modern European History, HS = History of Science, LA = Latin American History, NE = Near Eastern History, and HR = Honors, Reading, and Research.

First-Year Writing Seminars

HIST 103(1103) First-Year Writing Seminar: Immigrant Experiences (also AAS 103(1103))

Spring. 3 credits. Students should register through First-Year Writing Seminar Program. D. Chang.

An examination of US history through the experiences of immigrants. It surveys the migration of people from Europe, Africa, Asia, and Latin America to the US. Major topics include the relationship between immigration and American national identity, debates over assimilation and pluralism, ethnic resilience, collective struggles for equality, and movements toward immigration exclusion. (AM)

HIST 119(1190) First-Year Writing Seminar: Gandhi and the Politics of Non-Violence (also ASIAN 118(1118))

Fall. 3 credits. Students should register through First-Year Writing Seminar Program. D. Ghosh.

This course will examine the writings of Mohandas K. Gandhi, a leader of the non-violent movement against British colonialism in India. In particular, students will consider whether Gandhi's philosophies of self-reliance, moral discipline, civil disobedience, non-violent protest, and vegetarianism are applicable to living in the modern world. We will read some of Gandhi's well-known criticisms of modernity, including *Hind Swaraj* and *My Experiments with Truth*, and address

the sources, impact and legacy of Gandhi's ideas, including the relationship between Gandhian non-violence and the American civil rights movement. Written assignments will involve close readings of Gandhi's work with an eye toward engaging whether his ideas translate to being a modern and morally responsible individual in the early 21st century. (AS)

HIST 126(1260) First-Year Writing Seminar: Local History: Cornell University

Fall and spring. Students should register through First-Year Writing Seminar Program. C. Kammen.

This seminar will explore the history of Cornell University, its origins, founders, and the reasons why it was considered a radical and "godless" place. We will look at how the curriculum expanded, the origins of the education of women, the relationship of the university to the education of African-Americans and foreign students and how the earliest stated principles were adhered to, for the most part, but sometimes ignored. Readings for the course will be drawn from Carl Becker, Morris Bishop, F. B. White and the diaries, letters, and other comments written by more than 50 previous Cornell students. Members of the class will conduct research in the archives and create annotated scrapbooks of the semester. (AM)

[HIST 130(1300) First-Year Writing Seminar: History of the Writing of History

Fall. 3 credits. Next offered 2008-2009. A. Sachs.]

Introductory Courses

HIST 151(1510) Introduction to Western Civilization # (HA)

Summer and fall. 4 credits. D. Corpis. The West and its relations with the rest of the world are central topics today, but just what is the West and what is its history? In this course, we survey the history of the West from its antecedents in the ancient Near East through classical antiquity, and the European Middle Ages, Renaissance, and Reformation. Key themes include the origins of democracy and the civic republican tradition, the western way of war, the formation of Christendom, the development of and conflict between secular and church government, humanism, religious reform movements, and western encounters with other civilizations. Readings include a combination of primary and secondary sources. (EA) (ER)

HIST 152(1520) Intro to Western Civilization # (HA)

Summer and spring. 4 credits. T. R. Travers.

This course introduces students to the major social, intellectual, political, cultural, artistic, and literary events and movements that emerged in Europe and/or North America during the modern period. Readings will offer a variety of perspectives on topics such as: modernity and its meaning, revolution (industrial, social, political, cultural, artistic), imperialism, war, and the emergence of modern ideologies (capitalism, communism, liberalism, fascism). (ER) (EM)

HIST 153(1530) Introduction to American History (also AM ST 103[1530]) # (HA)

Summer and fall. 4 credits. HIST 153 is not a prerequisite for HIST 154.
M. Washington.

A survey of American history from the beginnings through the Civil War. Topics include cultural encounters in the age of Columbus, European colonization, the American Revolution, the early republic, antebellum reform movements, and the coming of the Civil War. (AM)

HIST 154(1531) Introduction to American History (also AM ST 104[1531]) (HA)

Summer and spring. 4 credits. HIST 153 is not a prerequisite for HIST 154. A. Sachs.
An introductory survey of the development of the United States since the Civil War. (AM)

[HIST 190(1900) Introduction to Asian Civilizations @ # (HA)

Spring. 4 credits. Next offered 2007–2008.
Staff.]

HIST 191(1910) Introduction to Modern Asian History (also ASIAN 191[191]) @ (HA)

Fall. 4 credits. E. Tagliacozzo and D. Ghosh.

The history of Asia-Pacific from the 19th century to the present, focusing on relations of India and Southeast Asia with each other and with the west. (AS)

HIST 195(1950) Colonial Latin America (also LAT A 195[1950]) # @ (HA)

Fall. 4 credits. K. Graubart.

This course examines the colonial "encounter" of Iberia, Africa and the New World, which began in 1492. Topics include economic and social organization of the colonies; the cultural hybridity that preceded as well as developed within colonialism; the production of ethnicity and race; slavery, forced labor and economic stratification; intellectual currents and daily life; indigenous and slave resistance and rebellion; and independence. (LA)

HIST 196(1960) Modern Latin America (also LAT A 196[1961]) @ (HA)

Spring. 4 credits. M. Roldan.

An introductory survey of Latin American history from the early 19th century to the present with particular emphasis on processes of nation-state formation and the development of capitalist economies. Prominent themes include U.S.–Latin American Relations; neocolonialism; and radicalism and revolutionary movements, explored through a variety of primary and secondary sources. (LA)

HIST 201(2001) Supervised Reading

Fall or spring. 2 credits. Prerequisite: junior or senior standing. Permission of instructor required. Staff. (HR)

Sophomore Seminars**[HIST 202(2020) The Court, Crime, and the Constitution (also AM ST 204[2022]) (HA)**

Spring. 4 credits. Limited to 15 students. Designed for sophomores but open to others as space permits. Permission of instructor required. Next offered 2007–2008. R. Polenbergl]

[HIST 203(2030) Wilderness in North American History and Culture (also AM ST 203[2033]) # (HA)

Fall. 4 credits. Limited to 15 students. Priority given to sophomores. Students must commit to a weekend-long field trip in Sept. Next offered 2008–2009. A. Sachs.]

HIST 204(2041) The Dutch and English in Colonial New York (also AM ST 216[2104]) # (HA)

Fall. 4 credits. Limited to 15 students.
J. Jacobs.

In this seminar course we will examine how identity and ethnicity shaped the culture of the Dutch in colonial New York, first during the years under Dutch rule in New Netherland (1624–1664, 1673–1674), and subsequently under English rule in New York State and City. Readings will center on a published primary sources (all in English translation). This course aims to provide students with insights into the construction of identity and the experience of ethnic diversity in early America. (AM)

[HIST 205(2050) The French Enlightenment: Methods, Ambitions, Contradictions # (HA)

Fall. 4 credits. Limited to 15 students. Next offered 2008–2009. S. Kaplan.]

[HIST 207(2070) SSP: The Occidental Tourist: Travel Writing and Orientalism in Southeast Asia (also HIST 507[5070], ASIAN 206[2660]) @ (CA)

Spring. 4 credits. Limited to 15 students. Prefer (but not required) that students have taken HIST 191 or 396. Letter grades only. Next offered 2007–2008. T. Loos.]

HIST 208(2081) Microhistory and the Margins of Early Modern European # (HA)

Spring. 4 credits. Limited to 15 students.
D. Corpi.

This course will examine the practice of "microhistory" as a method for understanding early-modern European culture and society. Microhistory as a genre of history writing has been most strongly developed by early-modern European historians and has largely dealt with the everyday lives of marginal but otherwise ordinary people—criminals, heretics, witches, lovers, peasants, and artisans. Students in this seminar will read exemplary contributions to the genre in an attempt to analyze the successes and short comings of this approach to history writing. Written assignments will ask students to theorize the relationship between everyday life and macrohistorical phenomena, to analyze of specific microhistories, and to write their own microhistories based on primary sources such as memoirs and court cases. (EM)

HIST 209(2090) Seminar in Early American History (also AM ST/FGSS 209[2090]) # (HA)

Fall. 4 credits. Limited to 20 students.
M. B. Norton.

Topic for Fall 2006: The Salem Witchcraft Crisis of 1692. Even though a myriad of books have been written about this endlessly fascinating episode in American history, many aspects of it remain unexplored. After reading some of the latest scholarship on the subject and viewing contemporary depictions of it, students will focus on interpreting and analyzing original documents covering some of the lesser-known aspects of the crisis (for

example, the involvement of large numbers of people from Andover, Mass.). Students will have opportunity to contribute their final work to the Salem Digital Archive on the web. (AM)

HIST 210(2100) The Government of God # (HA)

Spring. 4 credits. Limited to 15 students.
O. Falk.

The most efficient and powerful system of government in the West during the Middle Ages was centered at Rome and headed by the papacy. Yet, paradoxically, the Pope commanded no divisions and identified himself as the 'servant of the servants of God.' This course introduces students to key aspects of medieval institutional and religious history through an examination of this mighty papal apparatus, relying chiefly on reading of primary sources (in translation). We will trace the structure and methods by which the papal hierarchy established its sovereignty, comparing and contrasting them to those used by other medieval rulers, and ponder the ideologies which played a role in animating this enterprise. (ER)

[HIST 211(2110) SSP: Black Religious Traditions: Sacred and Secular (also AM ST 251[2110], RELST 211[2110]) (HA)

Fall. 4 credits. Limited to 15 students. Letter grades only. Next offered 2007–2008.
M. Washington.]

[HIST 212(2120) African-American Women in the 20th Century (also AM ST/FGSS 212[2120]) (HA)

Spring. 4 credits. Limited to 15 students. Next offered 2007–2008. M. Washington.]

HIST 214(2141) SSP: Crusade, Heresy, and Inquisition in the Medieval Mediterranean (also RELST 215[2150]) # (HA)

Spring. 4 credits. Limited to 15 students.
P. Hyams.

Crusade and Inquisition are words that retain the capacity to move us today. The decades around 1200 saw the notion of crusade expand greatly from its earlier use as holy war against Islam to license, among other things, ideological war within Christendom and against Christian heretics. The Albigensian Crusade targeted the Cathars of south-western France, followers of a faith imported from the eastern Mediterranean that the pope and western Church swiftly classified as heresy. Once efforts to extirpate dissent by preaching had failed orthodoxy turned to war and torture. The persecuting society transformed inquisition from a technical means for the investigation of truth in Roman law into a device to prosecute unbelievers and then destroy them by torture and fire. This will be a reading and writing seminar, aimed principally at sophomores and freshmen. We shall read mostly original sources, in English translation, and understand them through regular text commentary and investigative papers. Discussion will inevitably raise disturbing questions of contemporary political thought and wartime ethics and should help students clarify their historical roots and their own responses to some of the challenges facing the West today. (ER)

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminar Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the

discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Enrollment is limited to 15. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

[HIST 215(2150) Middle Ages on Film # (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2008-2009. P. Hyams.]

[HIST 216(2160) Gender and Colonization in Latin America (also LAT A 216[2161], FGSS 216[2160]) @ (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2008-2009. K. Graubart.]

[HIST 218(2180) Seminar on Genocide (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2008-2009. I. Hull.]

[HIST 219(2190) Women and Gender in South Asia: State and Society from Pre-colonial to Post-colonial (also ASIAN 219[219], FGSS 219[2190]) @ (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2008-2009. D. Ghosh.]

[HIST 220(2200) The Road Trip in American History and Culture (also AM ST 218[2200]) (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2008-2009. A. Sachs.]

HIST 221(2211) Seminar: The Blues and American Culture (also AM ST 205[2211]) (HA)]

Fall, 4 credits. Limited to 15 students. Permission of instructor required. R. Polenber.

Topics include: social origins of the blues; Delta, Piedmont, and east Texas variants; religion and racial protest; gender and sexuality; law, crime, and justice; white country blues; collectors and musicians; migration and the urban blues; the 1960s revival; the contemporary scene. (AM)

HIST 222(2220) SSP: Law, Society, and Culture in the Middle East (also NES/RELST 265[2565]) @ # (CA)]

Spring, 3 credits. Sophomore seminar. Limited to 15 students. D. Powers. For description, see NES 265. (NE)

[HIST 223(2230) International Law (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2007-2008. I. Hull.]

[HIST 224(2240) Art and Politics in 20th-Century Latin History @ (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2007-2008. M. Roldan.]

HIST 226(2261) Society and Religion in China (also ASIAN 226[226]) @ # (HA)]

Fall, 4 credits. Limited to 15 students. T. J. Hinrichs.

Categories that we take for granted, such as church/state, sacred/secular, supernatural/natural, and divine/mundane, do not always fit religious phenomena or ways of talking about them in Chinese society. This course will examine the religious description of society and the social organization of the supernatural. It will investigate the politics of religion and the numinous power of emperors and officials. It will explore the ways in which social groups (such as families, communities, and sects), texts (such as Buddhist sutras and popular fiction), specialists (such as priests

and Confucian teachers), performances (such as state rituals and popular plays), and places (such as temples and homes) participate in the creation, transmission, and transformation of religion and society in late imperial and modern China. (AS)

HIST 227(2271) Family Life in Renaissance Italy (also ITALL 227[2270]) # (HA)]

Spring, 4 credits. Limited to 15 students. J. Najemy.

The seminar explores the structures and sentiments of family life in Renaissance Italy, from the 14th to the 16th century, through a combination of translated primary sources and some secondary readings. Chief among the primary sources are the 15th-century dialogues *On the Family* written by the humanist Leon Battista Alberti, supplemented by diaries and memoirs, letters, sermons, and prescriptive writings by fathers, humanists, and churchmen. Among the topics to be investigated will be the variety of family structures, marriage, sexual relations, wives and husbands, parents and children, and family memory and commemoration in art and religious life. (ER)

[HIST 228(2280) Indian Ocean World (also ASIAN 228[228]) @ # (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2008-2009. E. Tagliacozzo.]

[HIST 229(2290) Jefferson and Lincoln: American Ideas about Freedom (also AM ST 229[2290]) (HA)]

Spring, 4 credits. Limited to 15 students. Priority given to undergrads. Next offered 2007-2008. E. Baptist.]

[HIST 230(2300) Seminar in History and Memory @ (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2008-2009. J. V. Koschmann.]

[HIST 234(2340) Seminar: Gender in Early Modern Europe (also FGSS 234[2340]) # (CA)]

Fall, 4 credits. Limited to 15 students. Designed for undergrads but open to all students. Permission of instructor required. Next offered 2008-2009. R. Weil.]

[HIST 235(2350) Antisemitism and the Crisis of Modernity (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2007-2008. V. Caron.]

HIST 236(2360) Native Peoples of the Northeast (also AM ST 236[2360]) # (HA)]

Spring, 4 credits. Limited to 15 students. J. Parmenter.

This course examines the history and culture of the indigenous peoples of northeastern North America, from ancient times through the era of contact with Europeans to the present day. The course emphasizes the fascinating and dramatic series of transformations and adaptations undertaken by the Native peoples of the Northeast which have contributed to their survival in the twenty-first century. Readings and discussions will be drawn from a variety of sources, including historical documents, traditional narratives, archaeological reports, ethnography, literature, the Internet, and museum exhibits of material culture. (AM)

[HIST 238(2431) Families in China since the 17th Century @ (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2008-2009. S. Cochran.]

[HIST 239(2390) Seminar in Iroquois History (also AM ST 238[2390], AIS 239[2390]) # (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2007-2008. J. Parmenter.]

HIST 241(2410) Riot and Revolution in 19th-Century Africa: The Birth of the Modern (also AS&RC 241[2303]) @ # (HA)]

Fall, 4 credits. Limited to 15 students. S. Greene.

The beginning of the 19th century witnessed the rapid and often times forceful expansion of Islam in West Africa, the end of the Atlantic slave trade, the transformation of the Zulu from a small, inconsequential people to the largest and most powerful ethnic group in South Africa, and the wild fire spread of Swahili as a lingua franca in east and central Africa. This course explores these revolutionary changes and the upheavals that accompanied them as Africa remade itself to face the modern era. Lectures, readings and discussions will focus on the causes and consequences of these events and their significance for understanding contemporary Africa. (AF)

HIST 242(2420) Religion and Politics in American History: From J. Winthrop to R. Reed (also AM ST/RELST 242[2420]) (HA)]

Spring, 4 credits. Limited to 15 students. Permission of instructor required. R. L. Moore.

This course is intended to provide historical background for understanding contemporary debates about church/state controversy in American politics. Permission of the instructor is required to enroll. (AM)

[HIST 243(2430) SSP: History of Things (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2007-2008. E. Tagliacozzo.]

[HIST 244(2440) The United States in Vietnam (HA)]

Fall, 4 credits. Limited to 15 students. Next offered 2008-2009. F. Logevall.]

[HIST 245(2450) SSP: Drugs: People, Policies, Politics @ (HA)]

Spring, 4 credits. Limited to 15 students. Recommended: previous course in Latin American history. Next offered 2008-2009. M. Roldan.]

[HIST 247(2470) The Age of Charlemagne (HA)]

Spring, 4 credits. Limited to 15 students. Next offered 2007-2008. P. Hyams.]

HIST 248(2480) Ghosts and Legacies: The Construction of Public Memory (HA)]

Spring, 4 credits. Limited to 15 students. J. Weiss.

Focusing principally on instances of guilty and divisive pasts produced by genocide, civil war, or colonial struggles, this course will investigate how contemporary politics, in Europe and America, shaped the perception of past events; how strategies of forgetting succeeded in repressing the memory of guilty pasts and what happened when they failed; and how the public memory of traumatic events was shaped in films, literature, and other cultural locations. (EM)

HIST 249(2491) French Social Thought from Rousseau to Foucault (HA)

Spring. 4 credits. Limited to 15 students.
C. Robcis.

In the aftermath of the French Revolution and the resulting social upheaval, many thinkers became preoccupied with the problem of "the social": how is society born? What links individuals into units such as the family, the corporation, or the nation? How can the State promote strong and lasting bonds between the individual and the collectivity? This seminar provides an introduction to some of the major figures in 19th and 20th century French intellectual history who have attempted to think this concept of "the social" in new ways. We will pay special attention to the implicit and explicit role that class, gender, sexuality, and race have occupied in the constructions of each author's normative social orders. Readings will include: Rousseau, Tocqueville, de Maistre, Durkheim, Mauss, Bataille, Beauvoir, Sartre, Lévi-Strauss, Lacan, Foucault, Deleuze, Derrida, Gauchet, and Rosanvallon. (EM)

Lecture Courses**HIST 250(2500) Technology in Society (also ENGRG/ECE 250[2500], S&TS 250[2501]) (HA)**

Fall. 3 credits. R. Kline.
For description, see ENGRG 250. (HS)

HIST 251(2511) Perspectives on Latin America (also LAT A/SPANL 320[3200]) @ (CA)

Spring. 3 credits. E. Paz-Soldán.
For description, see SPANL 220.

HIST 252(2520) Modern East-Central Europe (HA)

Fall. 4 credits. H. Case.
This course covers the key events, political ideologies, social and cultural trends, and definitions of East-Central Europe from 1848 to the present. Themes will include experiences of empire, war and revolution, the rise of nationalism, liberalism, fascism, and communism, totalitarian regimes, dissident movements, the post-communist transition, the experiences and roles of women in the region's history, the fate of minorities and multi-national states, European integration, and the future of the region. (ER) (EM)

HIST 253(2530) Introduction to Islamic Civilization (also NES/RELST 255[2655]) @ # (HA)

Fall. 3 credits. D. Powers.
For description, see NES 255. (NE)

HIST 255(2550) The Past and Present of Pre-Colonial Africa @ (HA)

Spring. 4 credits. S. Greene.
How has Africa's pre-colonial past influenced current events in Africa and elsewhere? To answer this question, this course explores the pre-19th century histories of four different cultural areas in Africa (e.g. Ancient Egypt, the West African coast). Using both ancient and more recent oral traditions, travelers' accounts and visual images, we link these histories to current debates about the role of history in contemporary politics, the significance of race, class and gender in times past and present, and the role of Africa in world affairs. (AF)

HIST 256(2560) War and Peace in Greece and Rome (also CLASS 229[2650]) # (HA)

Spring. 4 credits. B. Strauss.

In ancient Greece and Rome, government did little besides wage war and raise taxes, culture focused on war, warriors gloried in battle, and civilians tried to get out of the way. This course surveys the impact of war and the rarity of peace in the ancient world. Topics include: "why war?"; the face of battle; leadership; strategy, operations, and tactics; women and war; intelligence and information-gathering; diplomacy and peacemaking; militarism; war and slavery; the archaeology of warfare. Readings in translation include selections from Homer, Herodotus, Thucydides, Xenophon, Caesar, Livy, Tacitus, Josephus, and Ammianus Marcellinus. (EA)

HIST 257(2571) China Encounters the World (also ASIAN 257[2257], CAPS 257[2570]) @ (HA)

Fall. 4 credits. J. Chen.
This is a lecture and discussion course focusing on how China has encountered the world since the 17th century, with an emphasis on the late 19th and 20th centuries. In particular, it will analyze the age-old Chinese "Central Kingdom" conception and how the conception was challenged during modern times as the result of Western and Japanese incursion and China's inability to deal with the consequences of the incursion. It will further analyze the impact of the Chinese "victim mentality" in order to pursue a deeper understanding of why radical revolutions have dominated China's modern history. While the emphasis of this course is China's external relations, foreign policy issues will be examined in the context of China's political, economic and social developments in broader terms. The course's purpose is not just to impart information but also to cultivate a basic understanding of the significance of the Chinese experience in the age of worldwide modernization. Grade in this class will be calculated on the basis of class participation, quizzes, midterm and final exams, and one essay assignment. (AS)

[HIST 259(2590) The Crusades # @ (HA)

Spring. 4 credits. Next offered 2007–2008.
P. Hyams.]

HIST 260(2600) Latinos in the United States: Colonial to 1898 (also LSP 260[2600], AM ST 259[2599]) # (HA)

Fall. 4 credits. M. C. Garcia.
This course examines the history of various Latino populations in the United States up to 1898. Some of the topics we will discuss include the Spanish exploration and settlement of North America; the impact US territorial expansion on Mexicans, Puerto Ricans, and Cubans; the historical-structural factors that influenced 19th century migration; the role of race and class in shaping a national and ethnic identity; and the transnational influence of immigrant communities on their homelands. (AM)

HIST 261(2610) Latinos in the United States: 1898 to the Present (also AM ST/LSP 261[2610]) # (HA)

Spring. 4 credits. M. C. Garcia.
This course examines the history of various Latino populations in the United States since 1898. Some of the topics we will discuss include: immigration as a product of US hemispheric policies; the civil rights struggles of the 20th century and the evolution of a distinct "Latino" identity; the "new" migration from Latin America; the transnational influence of immigrant communities on their homelands. (AM)

[HIST 262(2620) The Middle Ages: Introduction and Sampler # (CA)

Summer and fall. 4 credits. Next offered 2008–2009. P. Hyams.]

[HIST 264(2640) Introduction to Asian American History (also AAS 213[2130], AM ST 213[2610]) (HA)

Spring. 4 credits. Next offered 2007–2008.
D. Chang.]

HIST 265(2650) Ancient Greece from Homer to Alexander the Great (also CLASS 265[2650]) # (HA)

Fall. 4 credits. Open to freshmen.
B. Strauss.

A survey of Greece from the earliest times to the end of the Classical period in the late fourth century B.C. The course focuses on the Greek genius: its causes, its greatness, its defects, and its legacy. The Heroic Age, the city-state, ancient democracy, and the intellectual ferment of the Greek Enlightenment are the main topics of study. Readings in translation from Homer, Aristophanes, Sophocles, Herodotus, Thucydides, Plato, Aristotle, and from the evidence of ancient inscriptions, coins, art, and architecture. (EA)

HIST 266(2660) Introduction to Native American History (also AM ST/AIS 266[2660]) (HA)

Spring. 4 credits. J. Parmenter.
With the abandonment of earlier perspectives grounded in romantic and evolutionary stereotypes, Native American history represents today one of the most exciting, dynamic, and contentious fields of inquiry into America's past. This course introduces students to the key themes and trends of the history of North America's indigenous peoples by taking an issues-oriented approach. We will cover material ranging from the debate over the Native American population at the time of first European contact to contemporary social and political struggles over casino gambling and land claims. The course stresses the ongoing complexity and change in Native American societies and will emphasize the theme of Native peoples' creative adaptations to historical change. (AM)

HIST 267(2670) History of Rome I (also CLASS 267[2683]) # (HA)

Fall. 4 credits. E. Rebillard.
For description, see CLASS 267. (EA)

HIST 268(2671) History of Rome II (also CLASS 268[2684]) # (HA)

Spring. 4 credits. HIST 267 is not a prerequisite for HIST 268. E. Rebillard.
For description, see CLASS 268. (EA)

HIST 269(2691) Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam (also NES/JWST/RELST 251[2651], COM L 231[2310]) @ # (HA)

Fall. 3 credits. R. Brann.
For description, see NES 251. (NE)

HIST 270(2700) The French Experience (also FRLIT 224[2240]) (CA)

Fall. 4 credits. S. Kaplan and P. Lewis.
We look ethnographically and through literature at tastes and at class as they function and are discussed in France. We examine speech in its practice and as it is reflected upon; and we look at views from France, from America, and other countries. As we emphasize differences, the French experience emerges. (EM)

HIST 271(2711) Politics of Violence in 20th-Century Europe (HA)

Spring. 4 credits. H. Case.

A survey of Europe's 20th-century history with special emphasis on uses of violence, including warfare, terrorism, genocide, uprisings, state-initiated domestic violence, rape, and other forms of violence. Discussions of First and Second World Wars and the political and ethnic clashes of the post-WWII period will be supplemented by less familiar instances of violence in the European context, including domestic violence. Lectures, readings and written assignments will explore the factors determining who organizes, overuses, and commits violence, how it is interpreted, what reactions it provokes, and how states have sought to curtail or facilitate it. (EM)

[HIST 272(2720) The Atlantic World from Conquest to Revolution (also AM ST 272[2720]) # @ (HA)]

Spring. 4 credits. Next offered 2008-2009. R. Weil and M. B. Norton.]

[HIST 273(2730) Women in American Society, Past and Present (also AM ST/FGSS 273[2730]) # (HA)]

Spring. 4 credits. Next offered 2007-2008. M. B. Norton.]

[HIST 274(2740) Foodways: A Social History of Food and Eating # (HA)]

Summer and fall. 4 credits. Next offered 2008-2009. S. Kaplan.]

HIST 277(2771) Getting Medieval I: The Early Middle Ages # (HA)]

Fall. 4 credits. This course fulfills the prerequisite for HIST 278. O. Falk.

Spanning the period ca. 300 to 1100 AD, this course surveys European history between the twilight of Classical antiquity and the dawn of the second millennium. Although we focus primarily on what would later become Western Europe, we also pay close attention to the neighbors of Latin Christendom, Byzantium and the Muslim world. Social, cultural, and institutional developments are emphasized, as is the variety of historical methodologies used to study the early Middle Ages. Were the "Dark Ages" a tailspin of hopeless decline? Or did medieval Europe embody new alternatives to a monolithic ancient world? Who or what drove the changes, and why? (ER)

HIST 278(2772) Getting Medieval II: The Later Middle Ages # (HA)]

Spring. 4 credits. Prerequisite: HIST 262/ HIST 277 or permission of instructor. O. Falk.

This course surveys European history in the period ca. 1000 to 1500 AD, when Western Europe was transformed. From inauspicious beginnings as Eastern Christendom and Islam's ragged cousin, it was able to bootstrap itself into the position of a dominant world civilization. We will look at developments in government, economy, technology, religious institutions and faith, cultural media and social ideals. What enabled the "European miracle" of the later Middle Ages? How was it implemented and manifested? What were the costs of progress, and who bore them? Who reaped the benefits? (ER)

HIST 279(2790) International Humanitarianism @ (HA)]

Spring. 4 credits. J. Weiss.

This course studies international humanitarian and human rights activities from their

origins to the present. The ideological and social roots of humanitarian thought and action receive attention, as does the often-overlapping, sometimes conflictual relationship between humanitarianism and human rights advocacy. Case studies will include the anti-slavery movement, the activities of faith-based groups, biographical studies of pioneering individuals, and the international response to various genocides. (EM)

HIST 280(2800) Introduction to Korea (also ASIAN 218[2218]) @ CA

Fall. 3 credits. B. Kwon.

Multi-disciplinary introduction to Korean history, society, and culture. The first part of the course examines sources of Korean tradition in their historical contexts. The second part, on the transition to a modern society, covers the mid-19th century to the Korean War. The last part is devoted to contemporary society. (AS)

HIST 281(2810) Science in Western Civilization (also S&TS 281[2811]) # (HA)]

Fall. 4 credits. HIST 281 in not a prerequisite for HIST 282. P. Dear.

This course aims to make comprehensible both to science majors and to students of the humanities the historical structure and development of modern science and to show sciences as a cultural phenomenon. Changing perceptions of nature and human knowledge from Greek Antiquity to the 20th century form the framework for current Western views of the world, while the roots of the present-day dominance of "science" as a symbol of progress of modernity lie in an alliance between knowledge of nature and power over nature that took shape in the 19th century after a long period of emergence. HIST 281 runs chronologically up to the death of Isaac Newton and focuses on the cultural traditions of Christian Europe and its selective appropriation of a Greek heritage. (HS)

HIST 282(2820) Science in Western Civilization (also S&TS 282[2821]) # (HA)]

Spring. 4 credits. HIST 281 in not a prerequisite for HIST 282. P. Dear.

This course aims to make comprehensible both to science majors and to students of the humanities the historical structure and development of modern science and to show sciences as cultural phenomena. Changing perceptions of nature and human knowledge from Greek Antiquity to the 20th century form the framework for current Western views of the world, while the roots of the present-day dominance of "science" as a symbol of progress and modernity lie in an alliance between knowledge of nature and power over nature that took shape in the 19th century after a long period of emergence. This course covers the 18th, 19th, and early 20th centuries. (HS)

HIST 283(2831) The Dutch and the Atlantic World (also AM ST 283[2831]) # (HA)]

Fall. 4 credits. J. Jacobs.

This course analyzes the unique nature of Dutch involvement in the Atlantic World from the end of the 16th century to the close of the 17th century. Unlike other early modern European colonial efforts, nations, the Dutch did not found flourishing settlement colonies, but instead concentrated on trade and shipping. This course emphasizes the problems and advantages associated with

non-territorial colonial expansion. Considered in comparative context, the Dutch experience raises the question of whether expansion without empire was a viable option during the early modern period. Readings will consist of primary documents and secondary scholarship in the form of both articles and monographs. Students will take two exams and write a research essay. (AM)

HIST 285(2850) From Medievalism to Modernity: The History of Jews in Early Modern Europe, 1492 to 1789 (also JWST 253[2850]) # (HA)]

Fall. 4 credits. V. Caron.

This course examines the history of European Jewry during the centuries of transition from the Middle Ages to the Modern Era. We examine the extent to which traditional Jewish life began to break down during this period and thus paved the way for the emergence of modern Jewry. Topics include the Spanish Expulsion of 1492, religious, intellectual, and socioeconomic dimensions of the Marrano dispersion, including Lurianic Kabbalah and the messianic movement of Shabbetai Zevi; the establishment of Jewish communities in the West; the end of the "Golden Age" of Polish Jewry and the rise of Hasidism; the changing economic and political role of Jews in the 17th and 18th centuries; and the impact of the Enlightenment. (EM)

HIST 286(2861) History of Zionism and the Birth of Israel (also JWST 290[2670]) (HA)]

Spring. 4 credits. V. Caron.

This course will examine the history of Zionism as an ideology and political movement from its origins in the 19th century to the present. Attention will be paid to situating Zionism within the context of modern Jewish, European, and Middle Eastern History. Topics will include: the ideological foundations of Zionism; the role of Theodor Herzl and the rise of political Zionism; the Balfour Declaration; the development of the Yishuv; Zionism as a cultural identity for Diaspora Jewry; the British mandate; the Arab-Zionist encounter; Zionist responses to the Holocaust; and Zionism and contemporary Israeli society. (EM)

HIST 287(2870) Evolution (also BIOEE 207[2070], S&TS 287[2871]) (PBS)]

Fall. 3 credits. A. MacNeil.

For description, see BIOEE 207. (HS)

[HIST 289(2890) The U.S.-Vietnam War (also ASIAN 298[2298]) @ (HA)]

Fall. 3 credits. Next offered 2007-2008.

K. Taylor.]

[HIST 291(2910) Modern European Jewish History, 1789 to 1948 (HA)]

Fall. 4 credits. Next offered 2007-2008.

V. Caron.]

HIST 292(2920) Inventing an Information Society (also ENGRG/ECE 298[2980], S&TS 292[2921]) (HA)]

Spring. 3 credits. R. Kline.

For description, see ENGRG 298.

HIST 294(2940) History of China in Modern Times (also ASIAN 294[2294]) @ (HA)]

Spring. 4 credits. Staff.

A survey that concentrates on the rise of the last imperial dynasty in the 17th and 18th centuries, the upheavals resulting from domestic rebellions and foreign imperialism in the 19th century, and the 20th-century efforts

to achieve social mobilization, political unity, and commercial expansion. (AS)

[HIST 295(2950) Introduction to the History, Language, and Culture of the Balkans (HA)]

Spring. 4 credits. Next offered 2007–2008. J. Weiss.]

HIST 300(3000) Spanish in the Disciplines (also SPANL/LAT A 302[3020])

Fall. 1 credit. Staff.

For description, see SPANL 302. (LA)

HIST 302(3002) Supervised Research

Fall and Spring. 3 or 4 credits. Prerequisite: junior or senior standing. Permission of instructor required. Staff. (HR)

[HIST 303(3030) African-American Women in Slavery and Freedom (also FGSS 307[3070], AM ST 303[3030]) # (HA)]

Fall. 4 credits. Letter grade only. Next offered 2007–2008. M. Washington.]

HIST 304(3040) American Culture in Historical Perspective, 1880–1980 (also AM ST 304[3040]) (CA)]

Fall. 4 credits. M. Kammen.

An introduction to the study of modern American culture. Emphasis upon the role of culture in the quest for national identity; the function of cultural myths and myth making; the advent of modernism; relationships between mass culture, popular culture, and high culture; and on the question of American exceptionalism (distinctiveness). Special attention also to the situation of subcultures and regions, to the changing role of entertainment in relation to leisure, the media, ethnicity (pluralism), the decorative and popular arts. (AM)

[HIST 305(3050) Britain, 1660 to 1815 # (HA)]

Fall. 4 credits. Next offered 2007–2008. R. Weil.]

HIST 306(3060) Modern Mexico: From Independence to the Zapatistas (also LAT A 306[3060]) @ (HA)]

Spring. 4 credits. R. Craib.

A survey of Mexico's history from the early 19th century to the present. The course covers social, cultural and economic trends and their relationship to political movements. Special emphasis will be given to the ways in which "common people" participated in and influenced politics; to the important regional, class, ethnic, and gender differences that have figured prominently in Mexico's history; and to the politics of history-making. (LA)

[HIST 307 British History, 1760–1870 # (HA)]

Spring. 4 credits. Next offered 2007–2008. T. R. Travers.]

[HIST 308(3080) History of Post-War Germany (1945 to Present) (HA)]

Fall. 4 credits. Next offered 2008–2009. I. Hull.]

[HIST 309(3090) History and Geographical Imagination @ # (HA)]

Fall. 4 credits. Next offered 2008–2009. R. Craib.]

[HIST 311(3110) Andean History and Ethnohistory @ # (HA)]

Spring. 4 credits. Next offered 2008–2009. K. Graubart.]

HIST 312(3120) Forging Nations: Experiments in Latin American Nation-Building and Reform (also LAT A 312[3211]) @ (CA)]

Fall. 4 credits. M. Roldan.

This course examines efforts undertaken to beautify, rationalize, integrate, reform and engineer into existence 'modern' Latin American citizens and nations, and the ways in which these efforts were contested and re-shaped by Latin Americans from the 19th through the 20th century. Topics will include (but are not limited to): race, science and rights; immigration, sexuality and urban regulation; radio, mass politics and space; the Cold War, Liberation Theology, revolution and counter-revolutions. (LA)

[HIST 314(3140) History of American Foreign Policy, 1912 to the Present (also AM ST 314[3140]) (HA)]

Spring. 4 credits. Next offered 2007–2008. F. Logevall.]

[HIST 315(3150) Environmental History: The United States and Beyond (also AM ST 349[3510]) (HA)]

Spring. 4 credits. Next offered 2008–2009. A. Sachs.]

HIST 316(3160) American Political Thought: From Madison to Malcolm X (also AM ST 376[3665], GOVT 366[3665]) # (HA)]

Fall. 4 credits. I. Kramnick.

For description, see GOVT 366. (AM)

HIST 318(3180) American Constitutional Development (also AM ST 317[3180]) (HA)]

Fall. 4 credits. Not open to freshman.

R. Polenberg.

Major issues in constitutional history. Topics include: the drafting of the Constitution; the Bill of Rights; the Marshall era; the crises caused by slavery and emancipation; the rise of substantive due process; Holmes, Brandeis, and freedom of speech; the Roosevelt "revolution"; civil liberties and civil rights in modern America; the right of privacy; the contemporary Supreme Court. (AM)

HIST 319(3191) Martial Arts and Society and Religion (also ASIAN 391[3391]) @ (HA)]

Fall. 4 credits. T. J. Hinrichs.

Exploration of the social, political, and cultural contexts of martial arts practice, and historical dynamics behind their transmission, transformation, and spread. Examination of the emergence of martial artists as popular figures, and martial arts as distinct sets of practices in China and Japan. Study of the modern re-invention of these practices, and of their transmission to other parts of the world. Investigation of a local martial arts school, and of the question, "What is East Asian about East Asian martial arts in Ithaca?" (AS)

[HIST 320(3200) The Viking Age # (HA)]

Spring. 4 credits. Next offered 2007–2008. O. Falk.]

HIST 321(3210) Colonial North America to 1763 (AM ST 321[3210]) # (HA)]

Fall. 4 credits. M. B. Norton.

A survey of European settlement in North America and the Caribbean, emphasizing the interactions of Europeans, Indians, and Africans; economic development; gender relations; religious and political change; and the impact on the colonies of internal and external conflicts. (AM)

HIST 324(3240) Varieties of American Dissent, 1880–1900 (also AM ST 324[3240]) (HA)]

Fall. 4 credits. N. Salvatore.

For description, see AM ST 324. (AM)

HIST 325(3250) Age of the American Revolution, 1754 to 1815 (also AM ST 322[3250]) # (HA)]

Spring. 4 credits. M. B. Norton.

An examination of the process by which the 13 English colonies became an independent and united nation, with emphasis on political thought and practice, social and economic change, and cultural development. Attention will be paid to the impact of the American Revolution on women, Blacks, and Indians as well as on white males. (AM)

[HIST 326(3260) History of the Modern British Empire (HA)]

Fall. 4 credits. Next offered 2008–2009.

T. R. Travers.]

[HIST 327(3270) The Old South # (HA)]

Spring. 4 credits. Next offered 2007–2008.

E. Baptist.]

[HIST 328(3280) Construction of Modern Japan (also ASIAN 328[3328]) @ # (HA)]

Spring. 4 credits. Next offered 2007–2008.

J. V. Koschmann.]

HIST 329(3290) Physical Science in the Modern Age (also S&TS 330[3301]) (HA)]

Fall. 4 credits. S. Seth.

For description, see S&TS 330.

HIST 330(3300) Japan from War to Prosperity (also ASIAN 335[3335]) @ (HA)]

Spring. 4 credits. J. V. Koschmann.

An interpretation of Japanese history from the late-1920s to present, emphasizing mobilization for total war and its continuing legacies, technology and organized capitalism, relations with the U.S. and Asian neighbors, social integration and exclusion, historical representation and consciousness, and political dynamics. (AS)

[HIST 331(3310) Causes of the American Civil War, 1815 to 1860 (also AM ST 331[3310]) # (HA)]

Fall. 4 credits. Next offered 2007–2008.

E. Baptist.]

[HIST 338(3644) Sages and Saints/Ancient World (also CLASS/RELST 332[3644]) # (HA)]

Spring. 4 credits. Next offered 2008–2009.

E. Rebillard.]

HIST 339(3391) Seminar on American Relations with China (also CAPS 300[3000])

Fall. 4 credits. Offered in the Cornell in

Washington Program. R. Bush.

For description, see CAPS 300. (AM) (AS)

[HIST 340(3400) Recent American History, 1925 to 1965 (also AM ST 340[3400]) (HA)]

Fall. 4 credits. Not open to freshman. Next offered 2007–2008. R. Polenberg.]

HIST 341(3410) Recent American History, 1965 to the Present (also AM ST 341[3410]) (HA)]

Spring. 4 credits. R. Vanderlan.

Topics include the Supreme Court, civil liberties, the Great Society and the Vietnam War; politics and the presidency from Nixon

to Bush; and class, race, and ethnicity in modern America. (AM)

[HIST 342(3420) History of Modern South Asia, 1700 to 1947: From the Mughals to Midnight (also ASIAN 342(3422)) @ # (HA)]

Fall. 4 credits. Next offered 2008-2009.
D. Ghosh.]

[HIST 343(3430) American Civil War and Reconstruction, 1860 to 1877 (also AM ST 343(3430)) # (HA)]

Spring. 4 credits. Next offered 2008-2009.
E. Baptist.]

[HIST 344(3440) South Asia and the Early Modern World @ # (HA)]

Spring. 4 credits. Next offered 2007-2008.
D. Ghosh.]

[HIST 345 19th-Century Cultural History (also AM ST 345(3450)) # (HA)]

Fall. 4 credits. Next offered 2007-2008.
A. Sachs.]

[HIST 346(3460) The Modernization of the American Mind (also AM ST 346(3460)) (HA)]

Spring. 4 credits. Next offered 2008-2009.
R. L. Moore.]

HIST 347(3470) Asian American Women's History (also AAS/FGSS 347(3470), AM ST 351(3470)) (CA)]

Spring. 4 credits. D. Chang.

This course examines the experiences and representations of Asian American women from the mid-19th century to the present. It explores the lives & contexts of immigrant women and of women both in the U.S. questions of identity and power are at the heart of this course as we explore the intertwined nature of race, gender, and nation. (AM)

HIST 348(3481) Modern France: 1870 to the Present (also FRLIT 348(3480)) (HA)]

Spring. 4 credits. C. Robcis.

This course will explore some of the major developments in French history, from the advent of the Third Republic to the present day. We will focus in particular on the political, social, economic, and cultural constructions of a "French Republican model" which has engendered a specific set of inclusions and exclusions. Among other themes, we will explore the consolidation of bourgeois power and socialist challenges; imperial expansion and decolonization; the impact of the two World Wars and the contested memory of Vichy; anti-Semitism, nationalism, and the rise of the new Right; immigration policies, May 68, and contemporary challenges to the "French social model." (EM)

[HIST 349(3490) Renaissance England, 1485 to 1660 # (HA)]

Fall. 4 credits. Next offered 2007-2008.
R. Weil.]

HIST 350(3500) The Italian Renaissance (also ITALL 221(2210)) # (HA)]

Spring. 4 credits. J. Najemy.

An exploration of intellectual, cultural, religious, and political developments in Italy from the political thought of Dante and Marsilius in the age of the communes, through the several stages of Humanism from Petrarch to Alberti to Pico, down to the crisis of Italian liberty in the generation of Machiavelli, Guicciardini and Castiglione. The course seeks

to problematize the notion of a "Renaissance" in the period's ambivalent attitudes toward history, politics, learning, culture, gender, language, and the role of intellectuals in politics and society. Emphasis is placed on the close reading of primary sources and on issues of interpretation. (ER)

HIST 351(3510) Machiavelli (also ITALL 351(3510)) # (HA)]

Fall. 4 credits. J. Najemy.

This course presents Machiavelli in a variety of historical and interpretive contexts; European and Italian politics in the early 16th century; the decline of the Florentine republic and the rise of the Medicean principate; Machiavelli's career in government and his, and the republic's, crisis in 1512-13; the intellectual traditions of Renaissance humanism, political thought, and the revival of antiquity; vernacular literary currents and popular culture; and the political writers and theorists with whom Machiavelli associated and corresponded. Emphasis is placed on a close reading of the major works (including the letters, *The Prince*, the *Discourses*, *Mandragola*, and selections from *The Art of War* and the *Florentine Histories*, all in translation) and a critical examination, in the light of that reading, of some major modern interpretations of Machiavelli. (ER)

[HIST 352(3520) 20th-Century East Asian-American Relations (also CAPS 352(3520)) @ (HA)]

Spring. 4 credits. Next offered 2007-2008.
J. Chen.]

[HIST 356(3560) The Era of the French Revolution and Napoleon # (HA)]

Fall. 4 credits. Next offered 2007-2008.
S. Kaplan.]

HIST 357(3570) Engineering in American Culture (also ENGRG 357(3570), S&TS 357(3571), AM ST 356(3570))

Fall. 4 credits. R. Kline.

For description, see ENGRG 357. (HS)

HIST 358(3580) Survey of German History, 1890 to the Present (HA)]

Fall. 4 credits. For freshman, permission of instructor required. I. Hull.

An examination of the "German problem," that is the political, social, cultural, economic and other causes of modern Germany's extreme violence and volatility from 1870 through 1945. The course covers German unification, Bismark's Empire, World War I, The Weimar Republic, and the Third Reich. (EM)

HIST 361(3611) Bakumatsu-Ishin: Conflicts and Transformations in Early Modern Japan, 1700-1890 @ (HA)]

Fall. 4 credits. K. Hirano.

This course explores Japan's tumultuous transformation from a samurai military government to a modern nation-state and its political and cultural implications for the present. It has been debated among both Japanese and American historians whether or not Japan's modern transformation is best understood as a "restoration (of imperial rule)" or as a "revolution." The choice of word as a descriptive category matters to the extent that it reveals one's perspective on this event. "Restoration" expresses the view that Japan's metamorphosis into a modern society was a relatively uneventful and smooth "transition" carried out by a handful of leaders whereas "revolution" recognizes Japan's experience

as one of the great transformations in which people from different segments of society participated for various reasons and motives. In this class, we will examine this event as a revolution, thus paying close attention to a wide range of ideas, activism, and practices such as samurai loyalism, peasant uprisings, popular culture, millenarianism, the exploration of western forms of knowledge and power, nation-state building and new ideologies of time (progress) and space (national identity). In other words, we seek to understand Japan's transformation as a fairly long, multifaceted and widely participated process of intense intellectual and cultural criticism as well as social and political activism. In addition to primary and secondary texts, we will read a few important theoretical works on revolution/social transformation for the purpose of critically examining the history of the fall of the Tokugawa samurai regime and creation of a modern social order, called bakumatsu-ishin in Japan. (AS)

HIST 364(3640) The Culture of the Renaissance II (also COM L/FRLIT/RELST 362(3620), ENGL 325(3250), MUSIC 390(3242)) # (CA)]

Fall. 4 credits. For freshman, permission of instructor required. Next offered 2007-2008. K. P. Long and W. Kennedy.]

HIST 365(3650) West Africa and the West: 1450-1850 (also AS&RC 365(3302)) # (HA)]

Fall. 4 credits. S. Greene.

1450 marks the time when peoples, ideas, material goods and beliefs began to move on a regular basis across the Atlantic, first between Africa and Europe, and then later between Africa, North and South America, and the Caribbean. This course examines these movements and explores how West Africans managed their relations with the west over a 400 year period. (AF)

HIST 367(3671) Survey of German History, 1648-1870 # (HA)]

Fall. 4 credits. For freshman, permission of instructor required. I. Hull.

An examination of the social, political, intellectual, and diplomatic history of the German states from the devastation of the Thirty Years' War, through absolutism, the bourgeois revolutions of 1848, the struggle for unification, to the beginning of the modern industrial state. The course concentrates on the transition from early modern to modern social and state organization, and on the development of modern civil society. (EM)

HIST 368(3680) Marriage and Sexuality in Medieval Europe (also RELST/FGSS 368(3680)) # (HA)]

Fall. 4 credits. Recommended: some prior knowledge of medieval European history.
P. Hyams.

Few topics generate heat so readily as gender relations and sexuality. Behind the current controversies lie decisions made in the first Christian centuries, and firmed up in the course of the Middle Ages; these still affect all of us, believers and unbelievers alike. This course studies Western attempts to deal with the problem of sexuality up to about 1500. The class will first clarify the church's normative rules of law and theology. Armed with this framework, it will then turn to more specific topics, including homosexuality, prostitution, rape/abduction and sexuality in medieval literature. The goal is to be able to compare the ideal model with the reality,

and thus to assess the product the medieval church passed on to Western culture and ourselves. No formal prerequisite, though some prior knowledge of medieval European history is desirable. (ER)

[HIST 369(3690) The History of Florence in the Time of the Republic, 1250 to 1530 (also ITAL 369[3690]) # (HA)]
Spring. 4 credits. Next offered 2007–2008. J. Najemy.]

[HIST 370(3700) History of the Holocaust (HA)]
Spring. 4 credits. Next offered 2007–2008. V. Caron.]

HIST 371(3710) World War II in Europe (HA)

Summer and fall. 4 credits. J. Weiss.
The Second World War remains the single most important set of events shaping the contemporary world. The course deals with both the events of World War II as they shaped European and world history and the way those events were remembered and commemorated in postwar years. Lectures, screenings, and readings will examine: the role of wartime political leaders and military commanders; the experience of war and occupation for soldiers and civilians, including Resistance movements and collaborators; Nazi genocide; intellectual and cultural changes during the war, including the impact on literature and philosophy; strategic questions about the origins and conduct of the war; the concluding phases involving the Nuremberg Trials, the Yalta and Potsdam conferences, and the launching of the Cold War; and the representation of the war in subsequent films, literature, and political culture. (EM)

HIST 373(3730) Law, Crime, and Society in Early Modern Europe # (HA)

Spring. 4 credits. D. Corpis.
This course will survey the development of law, legal institutions, definitions of crime, and practices of criminality from the 16th through 18th centuries. We often associate this period with extreme measures of law enforcement and repression, whether the persecution of converted Jews by the Inquisition or the witch burnings that raged through various parts of Europe in the 16th and 17th centuries. Yet much of our common knowledge of law and crime in early modern European history consists of exaggerations, myths and misunderstandings. This course offers a corrective by exploring the historical contexts and meanings of law and crime in European society. Some of the themes covered in this course include the relationship between common law and Roman law, jurisdiction building and jurisdictional competition, the imposition of gender and sexual norms, heresy and witchcraft prosecutions, the sociology and anthropology of "criminal" subcultures, and the political process of "criminalization." (EM)

[HIST 375(3750) The African American Workers, 1865 to 1910: The Rural and Urban Experience (also ILRCB 385[3850]) # (HA)]
Fall. 3 credits. Junior or senior standing or permission of instructor. Next offered 2007–2008. N. Salvatore.]

HIST 376(3760) The African-American Workers, 1910 to the Present: Race, Work, and the City (also ILRCB 386[3860])

Fall. 3 credits. N. Salvatore.
For description, see ILRCB 386. (AM)

[HIST 378(3780) Topics in U.S. Women's History (also AM ST 378[3780])]
Fall. 4 credits. Prerequisite: HIST/FGSS 273, 303, or 238 or permission of instructor. Next offered 2007–2008. M. B. Norton.]

[HIST 379(3790) The First World War: Causes, Conduct, Consequences (HA)]
Spring. 4 credits. For freshman, permission of instructor required. I. Hull.]

HIST 388(3880) History of Vietnam (also HIST 688[6880], ASIAN 385/685[385/685]) @ # (HA)

Fall. 3 credits. K. Taylor.
For description, see ASIAN 385. (AS)

[HIST 395(3950) Premodern Southeast Asia (also HIST 695[6950], ASIAN 397[397]) @ # (HA)]

Fall. 4 credits. Open to undergraduates, and to graduate students, although with separate requirements. Next offered 2007–2008. E. Tagliacozzo.]

HIST 396(3960) Southeast Asian History from the 18th Century (also HIST 696[6960], ASIAN 396/696[396/696]) @ (HA)

Spring. 4 credits. Graduate students must enroll in HIST 696. E. Tagliacozzo.
Surveys the modern history of Southeast Asia with special attentions to colonialism, the Chinese diaspora, and socio-culture institutions. Considers global transformations that brought "the West" into people's lives in Southeast Asia. Focuses on the development of the modern nation-state, but also questions the narrative by incorporating groups that are typically excluded. Assigns primary texts in translation. (AS)

Honors Courses

HIST 400(4000) Honors Proseminar

Fall and spring. 4 credits. Limited to 15 students. For prospective honors candidates in history. Permission of member of Honors Committee required. Fall, H. Case; spring, R. Craib.

An exploration of major contemporary approaches to historical inquiry, analysis, and presentation. Ways of thinking about history along with research methods and organization of the results will be considered by reading and discussing a variety of historical works. (HR)

HIST 401(4001) Honors Guidance

Fall. 4 credits. Prerequisite: HIST 400. Permission of instructor required. E. Tagliacozzo. (HR)

HIST 402(4002) Honors Research

Spring. 4 credits. Prerequisite: HIST 400. Permission of instructor required. E. Tagliacozzo. (HR)

Undergraduate Seminars

HIST 403(4030) History of the U.S. Senate in the 20th Century (also GOVT 400) (HA)

Fall and spring. 4 credits. Offered in Cornell in Washington Program. B. Koed.
This course will offer students an opportunity to view the process of shaping national debates from the perspective of the United States Senate. The modern Senate will serve as the point of reference for an inquiry into the development of the institution's powers under the Constitution during the past 200 years. Class readings, lectures and discussions will focus on the themes of continuity and change, the role of individual senators, and the institutional evolution of the Senate. In addition to general class reading and written examinations, each student will write a short paper and participate in an oral presentation. (AM)

[HIST 404(4041) Ethnicity, Race, and Indigeneity in Latin America @ (HA)]

Fall. 4 credits. Limited to 15 students. Prerequisite: a previous course in Latin American history. Next offered 2008–2009. K. Graubart.]

HIST 405(4050) U.S.–Cuba Relations (also HIST 605[6050], LAT A/LSP/AM ST 405/605[4050/6050]) (HA)

Fall. 4 credits. M. C. García.
The course examines the political, cultural, and economic relations between the United States and Cuba since the 18th century. Special attention is given to the transnational role of exiles and immigrants in shaping policy in both countries and across the region. (AM) (LA)

HIST 406(4061) The New Cold War History (also HIST 606[6061]) @ (HA)

Spring. 4 credits. Limited to 15 students. J. Chen.
This is a reading and research seminar with an emphasis on the "new" Cold War history—a scholarly phenomenon emerging since the early 1990s, along with the end of the global Cold War and the new opportunities to conduct multi-archival and multi-source research. Students will be exposed to various new interpretations, new methods of research, and new ways of thinking associated with the "new Cold War history" studies. Readings in this class will be focused on the scholarship that has appeared since the early 1990s. Students are required to write several feature reviews and a comprehensive review essay, as well as to present them, in the course. Grade in the course will be calculated on the basis of evaluation of both written work and oral presentations, as well as of class participation. (AS)

[HIST 408(4080) Feudalism and Chivalry: Secular Culture in Medieval France, 1000 to 1300 # (HA)]

Fall. 4 credits. Recommended: HIST 262, 263, or 264. Next offered 2007–2008. P. Hyams.]

[HIST 410(4100) Archipelago: Worlds of Indonesia (also HIST 617[6100], ASIAN 409/617[4409/6617]) @ (HA)]

Spring. 4 credits. Open to undergraduates and graduate students, though with separate requirements. Limited to 15 students. Next offered 2007–2008. E. Tagliacozzo.]

HIST 413(4130) American Immigration Law and Policy in Historical Perspective (HA)

Spring. 4 credits. Offered in Cornell in Washington Program. S. D. Kang.

This class examines some of the major trends in immigration history by surveying the legal and policy mechanisms used to regulate the inflow and outflow of immigrant populations from the colonial period to the present. The course also explores the impact of these regulatory devices on the shaping of immigrant communities, the political behavior of ethnic groups, immigrant working class formation, race relations, and notions of membership and citizenship in American society. In the simplest terms, the course considers both the law-on-the-books and the law-in-action. In so doing, the seminar provides a comprehensive overview of the operation of this nation's immigration infrastructure. Students will become familiar with the major legal/doctrinal questions, political debates, institutions (the Border Patrol and the INS), and social issues surrounding American immigration policy. Since this class will be taught from a multidisciplinary perspective, class assignments will include a variety of materials such as legal and government documents, primary sources such as oral histories and newspaper articles, as well as historical monographs and essays. (AM)

HIST 415(4150) Seminar in the History of Biology (also BIOEE 467[4670], B&SOC/S&TS 447[4471]) (PBS)

Summer or fall. 4 credits. Limited to 18 students. W. Provine.

For description, see BIOEE 467. (HS)

[HIST 416(4160) Undergraduate Seminar on Gender and Sexuality in Southeast Asia (also HIST 616[6160], FGSS 416/616[4160/6160], ASIAN 416/618[4416/6618]) @ (CA)

Spring. 4 credits. Letter grades only. Next offered 2008-2009. T. Loos.]

[HIST 417(4170) History of Jews in Modern France (also JWST 446[4170], FRLIT 413[4130]) (HA)

Spring. 4 credits. Permission of instructor required. Next offered 2008-2009. V. Caron.]

HIST 419(4190) Seminar in American Social History (also AM ST 419[4190]) (HA)

Spring. 4 credits. Offered in Cornell in Washington Program. S. Blumin. (AM)

[HIST 420(4200) Asian American Communities (also AM ST 420[4220], AAS 420[4240]) (HA)

Fall. 4 credits. Limited to 15 students. Next offered 2008-2009. D. Chang.]

HIST 421(4210) Undergraduate Seminar in Cultural History (also AM ST 421[4120], ART H 421[4021])

Fall. 4 credits. Limited to 15 students. Permission of instructor required. M. Kammen.

Topic for Fall 2006: Tocqueville's *Democracy in America*. This seminar will undertake a close reading of the most astute and influential inquiry ever made concerning politics and society in the U.S., Alexis de Tocqueville's *Democracy in America* (2 vols. 1835-40). In addition, we will read Tocqueville's correspondence concerning the U.S.; some major secondary sources about

Tocqueville and his companion Beaumont; two works by "moderns" who have done the "Tocqueville thing" (1982 and 2005); and assess the uses and abuses of Tocqueville's insights in recent American political discourse. How prophetic was this French political philosopher? (AM)

HIST 422(4221) British in India, 1750-1830 @ # (HA)

Spring. 4 credits. T. R. Travers.

Examines the growth of British power in India before 1830. Topics include: the sequence and causes of historical conquests, the British-Indian army, colonial legal regimes and knowledge systems, and the social life of colonial towns. Students will undertake their own research paper and a topic of their choice. (EM)

[HIST 423(4230) Chronicles of the Conquest of Latin America @ (HA)

Spring. 4 credits. Next offered 2007-2008. K. Graubart.]

HIST 424(4240) Art and Politics in 20th-Century Latin America (also LAT A 424[4241]) @ (CA)

Fall. 4 credits. Limited to 15 students.

Permission of instructor required. HIST 296 or other Latin American course suggested. M. Roldan.

This seminar will examine how the intersection of art and politics shaped culture, ideology, and identity in Latin America from the Mexican Revolution to the dictatorships of the late 20th century. Topics may include muralism and the Mexican Revolution; the artist as muse and activist (Frida Kahlo); working class and immigrant culture in Argentina and the tango; samba as social and political protest in Brazil; gender and politics in exiled women's literature; the appropriation of public spaces as artistic forum and mean of communication under authoritarian regimes. (LA)

HIST 426(4260) The West and Beyond: Frontiers and Borders in American History and Culture (also AM ST 426[4260]) (HA)

Spring. 4 credits. Limited to 15 students.

Priority given to junior and senior majors in History and American Studies. A. Sachs.

"Eastward I go only by force," said Henry David Thoreau, "but westward I go free." This seminar explores the many meanings of the West—as a place, as a process, and especially as a borderground—in U.S. history. The Civil War was fought between North and South, but in many ways these two regions were disputing the fate of the West. Indeed, some historians have argued that there is nothing more significant than the idea of the frontier in American history. But did the "westerling" movement represent a heroic accomplishment or a tragic act of violent appropriation? What is covered up by the very idea of something called a West, with all its mythic connotations? We'll attempt to address these and other questions as we wander along various fault lines in time and space, analyzing American frontiers from the era of the Indian Wars in the Massachusetts Bay Colony to the era of Arnold Schwarzenegger's governorship. (AM)

[HIST 428(4261) Commodification in Historical Perspective: Sex, Rugs, Salt, and Coal (also AM ST 427[4261]) @ # (HA)

Spring. 4 credits. Priority given to juniors and seniors majoring in History and American Studies. Next offered 2008-2009. A. Sachs.]

[HIST 430(4300) America in the Camera's Eye

Fall. 4 credits. Limited to 15 students. Permission of instructor required. Next offered 2008-2009. R. L. Moore.]

HIST 431(4310) Farmworkers (also HIST 631[6310], LSP 431/631[4310/6310], CRP 395.72/679.72[3850/5850], ILRCB 402[4020]) (HA)

Spring. 4 credits. R. Craib.

For description, see LSP 431. (LA)

[HIST 432(4320) Topics in Ancient Greek History (also HIST 633[6330]) # (HA)

Spring. 4 credits. Next offered 2008-2009. B. Strauss.]

HIST 433(4330) History of Modern German Jewry: From Enlightenment to the Post-1945 Era (also GERST/JWST 453[4330]) (HA)

Spring. 4 credits. Limited to 15 students. V. Caron.

Although the fate of the Jews in Germany ended in tragedy during the Holocaust, the German-Jewish interacting during the modern period was also characterized by immense creativity. Modern German Jewry stood at the forefront of innovative religious and ideological movements, and their history therefore offers a lens through which we can focus on the opportunities and challenges that faced modern European Jews more generally. Topics include: debates about Jewish emancipation; the processes of anti-Semitism; the encounter with East European Jewish immigrants; Jews in Weimar culture; Jewish responses to the rise of Nazism; and post-1945 German reflections on the Holocaust. (EM)

[HIST 436(4360) Conflict Resolution in Medieval Europe # (KCM)

Spring. 4 credits. Next offered 2008-2009. P. Hyams.]

[HIST 439(4390) Reconstruction and the New South (also AM ST 439[4390]) # (HA)

Spring. 4 credits. Limited to 15 students. Limited to juniors and seniors. Next offered 2008-2009. M. Washington.]

HIST 441(4411) Fourth Century and Early History of Greece (also CLASS 441[4410]) # (HA)

Fall. 4 credits. B. Strauss.

Topics include the evolution of the Greek city-state; society, economy, and gender; democracy, oligarchy, and tyranny; the careers of Philip, Alexander, and the Successors. Greco-Persian relations. Sicily and southern Italy, and the establishment of the Hellenistic Kingdoms. (EA)

HIST 442(4421) To Be Enslaved Then and Now # (HA)

Spring. 4 credits. S. Greene.

In this course, we will read and analyze select texts (both oral and written) that were composed between the late 18th century and 2005 by individuals who were enslaved or who boasted of enslaving others. Emphasis is placed on African and African American texts but in comparison with narratives by

Europeans, Asians and Latin Americans. For whom were these texts produced and for what purpose? How much in these texts is history, how much is fiction, and how do we determine the difference? What can these texts tell us about the individual authors and the political, economic and cultural contexts in which they were written? These and other related questions will structure this seminar. (AF)

[HIST 444(4440) American Men (also AM ST/FGSS 444(4440)) (HA)

Fall. 4 credits. Limited to 15 students. Next offered 2008–2009. E. Baptist.]

HIST 445(4451) New York Women (also S&TS 422(4221), FGSS 422(4220)) (HA)

Fall. 4 credits. Limited to 15 students. M. Rossiter.

For description, see S&TS 422. (AM)

HIST 446(4460) Strategy in World War II (HA)

Spring. 4 credits. Permission of instructor required. J. Weiss.

Strategic decision-making in World War II. The course will be organized into a "task force" addressing crucial problems faced by the European–American Allies in World War II: the invasion of northwest Europe, strategic bombing tactics, the rescue of European Jews, and coordination with the Soviet Union. Individual presentations/papers followed by meetings to draft group reports. (EM)

[HIST 447(4470) Crusaders and Chroniclers @ # (HA)

Fall. 4 credits. Limited to 15 students. Next offered 2007–2008. P. Hyams.]

HIST 448(4480) The Rabinor Seminar (also AM ST 430.5(4301), AAS 430(4301), ENGL 430(4300))

Spring. 4 credits. Permission of instructor required. S. Wong.

For description, see AM ST 430.5.

[HIST 452(4520) History of the New Europe (HA)

Fall. 4 credits. Limited to 15 students. Next offered 2008–2009. H. Case.]

HIST 453(4530) Formation of Islamic Law (also NES/RELST 457(4657)) @ # (HA)

Fall. 4 credits. D. Powers.

For description, see NES 457. (NE)

HIST 454(4541) The Rise and Fall of 20th-Century Liberalism (HA)

Spring. 4 credits. R. Vanderlan.

This seminar will consider the origins, achievements, limits and legacy of 20th century attempts to create a more just and equal society. We will examine the evolving nature of liberal thought from the New Deal through the Great Society and on to Bill Clinton, and trace opposition from Barry Goldwater through Ronald Reagan and on to Welfare Reform. We will focus on the interplay between ideas, policies, and politics. (AM)

HIST 456(4560) Topics in Medieval Historiography (also HIST 656(6560)) # (HA)

Spring. 4 credits. Permission of instructor required. O. Falk.

This seminar explores issues of historical theory and methodology, emphasizing their specific iterations in medieval European history. Historians of the Middle Ages must wrestle with all of the challenges familiar to

our modern counterparts, and then some: documents are more scarce, languages more dead, categories more elusive than in recent historical context. We will examine medieval historians' contributions to broad debates in the discipline, sample historiographical chestnuts that have occupied medievalists, and enquire into ways of expanding our conceptual tool kits further in the future. (ER)

HIST 457(4570) Seminar in European Fascism (HA)

Fall. 4 credits. Permission of instructor required. I. Hull.

An attempt to define and understand the social, political, and intellectual origins, mechanisms, and goals of European fascist movements of the 1920s and 1930s by detailed study of German national socialism, Italian fascism, and the Action Française. (EM)

HIST 458(4581) Intelligibility in Science (also S&TS 458(4581)) (HA)

Spring. 4 credits. P. Dear.

In what ways has the European tradition known as "science" attempted to understand the natural world, and how has it attempted to lend credibility to its accounts? This senior research seminar will focus on the study of primary sources in the history of science, especially the European science of the past four centuries, to investigate what issues were involved in the establishment and acceptance of dominant approaches in various areas of scientific work, in both physical and life sciences. Work will be centered on the text of Peter Dear's *The Intelligibility of Nature: How Science Makes Sense of the World* (U. Chicago Press, currently in press), with the intention of investigating further some of its ideas in relation to source material not considered in the text. Final papers for the course will pursue the notion of intelligibility in the history of science by investigating a case study from any period and in any scientific discipline that the student (in consultation with the professor) deems worthwhile. (HS)

[HIST 462(4620) Popular Culture in European History (CA)

Fall. 4 credits. Next offered 2007–2008. S. Kaplan.]

[HIST 463(4630) War and Society in Eastern Europe (HA)

Spring. 4 credits. Next offered 2007–2008. H. Case.]

[HIST 464(4640) Historical Issues of Science, Technology, Race, and Colonialism (also S&TS 475(4751)) (HA)

Fall. 4 credits. Next offered 2007–2008. S. Seth.]

HIST 465(4651) Special Topics: Chinese Historical Documents (also CHIN 425(4425))

Fall. 4 credits. Prerequisite: equivalent of three years Mandarin instruction. Permission of instructor required. Z. Chen. Topic for Fall 2006: Historical Documents on Modern China. For description, see ASIAN 425. (AS)

[HIST 466(4660) Iroquois History (also AM ST/AIS 466(4660)) # (HA)

Fall. 4 credits. Next offered 2008–2009. J. Parmenter.]

HIST 468(4680) Love and Sex in the Italian Renaissance (also ITALL 468(4680)) # (HA)

Spring. 4 credits. J. Najemy.

An exploration of the representation of love, sex, and eros in Italian Renaissance literature, and the attempts by secular governments and the Church to manage, discipline, and punish sexual transgression. Primary texts include Boccaccio's *Decameron*, 15th-century novella, plays by Machiavelli (*Mandragola*, *Clizia*) and Bibbiena (*Calandria*), and Aretino's *Dialogues*. Secondary readings include studies of sexual crime, love across social boundaries, prostitution, homosexuality, and lesbianism. (ER)

HIST 469(4691) The Old English Laws and Their Politico-Cultural Context (also HIST 669(6691), ENGL 419(4190)) # (CA)

Fall. 4 credits. P. Hyams and T. Hill.

The Old English law codes contain basic information on almost every historical topic for the period from kingship down to peasants and their boundary fences. This makes them central to the study of Anglo-Saxon England. Yet their very nature remains controversial. How far, for example do they represent achievement such as the establishment of central authority capable of enforcing laws throughout the realm, and how far merely aspiration, possibly clerical and unworldly at that, toward that end? The special character of the laws comes from their being in the vernacular. In this interdisciplinary class, there will be an opportunity to read them in the original Old English, with assistance to beginners. But the excellent translations we possess and a plethora of lively comment offer anyone an attractive introduction to the study of pre-modern texts in general and to the reasons why Old English scholars are now extending their canon so far beyond its traditional "literary" borders. (ER)

HIST 474(4740) Topics in Modern European Intellectual and Cultural History (also COM L/JWST 474(4740))

Fall. 4 credits. Limited to 15 students. D. LaCapra.

Topic for 2006: History and Trauma. The course will focus on the relation between trauma and history, including the experience, memory, and representation of traumatic events. It will treat a series of works (historical, theoretical, and fictional) in which this problem arises in an acute form, especially (but not exclusively) with respect to the Holocaust. (EM)

[HIST 476(4760) History and Story in the North Sagas (also HIST 676(6760)) (HA)

Spring. 4 credits. Next offered 2008–2009. O. Falk and T. Hill.]

[HIST 477(4770) Seminar on the Politics of the Enlightenment # (HA)

Fall. 4 credits. Next offered 2008–2009. S. Kaplan.]

[HIST 483(4831) Christianization/Roman World (also CLASS 475(4625), RELST 475(4625)) # (HA)

Fall. 4 credits. Next offered 2008–2009. E. Rebillard.]

[HIST 484(4840) Subversion as Foreign Policy: The United States in Southeast Asia @ (HA)

Spring. 4 credits. Next offered 2007–2008. T. Loos.]

[HIST 488(4880) Seminar in the Late 19th-Century European Imperialism (HA)]

Spring. 4 credits. Permission of instructor required. Next offered 2008-2009. I. Hull.]

[HIST 490(4900) New World Encounters, 1500 to 1800 (also AM ST 490[4990], AIS 490[4900]) (HA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007-2008. J. Parmenter.]

[HIST 491(4910) Approaches to Medieval Violence (also HIST 692[6920]) # (HA)]

Fall. 4 credits. Limited to 15 students. Permission of instructor required. Next offered 2007-2008. O. Falk.]

[HIST 493(4930) Problems in Modern Chinese History (also HIST 693[6930], ASIAN 493/693[4493/6693]) @ (HA)]

Fall. 4 credits. Prerequisite: HIST 294 or permission of instructor. Next offered 2007-2008. S. Cochran.]

[HIST 494(4940) Theories of Civilization (also ASIAN 425[4425]) @ # (HA)]

Spring. 4 credits. Next offered 2007-2008. K. Taylor.]

[HIST 495(4950) Gender, Power, and Authority in England, 1600 to 1800 # (CA)]

Spring. 4 credits. Next offered 2008-2009. R. Weil.]

HIST 496(4961) History of Medicine and Healing in China (also ASIAN 469[4469], S&TS/B&SOC 496[4961]) @ # (HA)]

Spring. 4 credits. T. J. Hinrichs.

An exploration of processes of change in medicine in China. Focuses on key transitions, such as the emergence of canonical medicine, of Daoist approaches to healing and longevity, of "Scholar Physicians," and of Traditional Chinese Medicine in modern China. Inquires into the emergence of new healing practices in relation to both popular and specialist views of the body and disease, "cultivating vitality" practices, modes of transmission of medical knowledge, and healer-patient relations. Course readings include primary texts in translation as well as secondary materials. (AS)

[HIST 497(4970) Jim Crow and Exclusion-Era America (also HIST 697[6970], AM ST 497/697[4970/6970], AAS 497[4970]) (HA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007-2008. D. Chang.]

[HIST 499(4990) Problems in Modern Chinese History (also HIST 694[6940], ASIAN 499/694[4499/6694]) @ (HA)]

Spring. 4 credits. Prerequisite: HIST 294 or permission of instructor. Next offered 2007-2008. S. Cochran.]

HIST 500(4997) Undergraduate Research Seminar (also AM ST 500[4997])

Fall and spring. 8 credits each semester. Offered in Cornell in Washington Program. S. Jackson.

Intensive research and writing experience using the extensive resources of Washington D.C. (AM)

Graduate Seminars

[HIST 507(5070) Graduate Seminar: The Occidental Tourist (also HIST 207[2070], ASIAN 206[2660])]

Fall. 4 credits. Next offered 2007-2008. T. Loos.]

[HIST 525(5250) Seminar in the History of Technology (also S&TS 626[6261])]

Spring. 4 credits. R. Kline.]

HIST 601(6010) European History Colloquium

Fall and spring. 2 credits each semester. Limited to graduate students. Fall, D. LaCapra and H. Case; spring, V. Caron and T. R. Travers.

A research colloquium designed for European history graduate students. The colloquium will offer a forum for students to present papers and to discuss the work of visiting scholars. (EM)

HIST 604(6040) Colloquium in American History

Spring. 4 credits. Requirement for first- and second-year graduate students in U. S. history. M. B. Norton.

Examination of major approaches, periods, issues, and modes of interpreting American history. Readings include recent "classics" of American scholarship from diverse sub fields and genres. (AM)

HIST 605(6050) U.S.-Cuba Relations (also HIST 405[4050], LAT A/LSP/AM ST 405/605[4050/6050])

Fall. 4 credits. M. C. García.
For description, see HIST 405. (AM) (LA)

HIST 606(6061) The New Cold War History (also HIST 406[4061])

Spring. 4 credits. Limited to 15 students. J. Chen.
For description, see HIST 406. (AS)

[HIST 607(6041) Race and Ethnicity in Latin America (also HIST 404[4041])]

Fall. 4 credits. Next offered 2008-2009. K. Graubart.]

[HIST 608(6051) Themes and Issues in Modern European History]

Spring. 4 credits. Next offered 2007-2008. H. Case.]

HIST 610(6101) Afro-American Historiography (also AM ST 610[6101])

Fall. 4 credits. Letter grades only. M. Washington.
Reading and discussion course focusing on the way historians write and interpret the Black experience in America. Students will be concerned with individual historians, various schools of thought, and historical approaches. (AM)

HIST 612(6120) Colonial Latin America (also LAT A 612[6120])

Fall. 4 credits. K. Graubart.
This course provides a foundation in colonial Latin American history and historiography for graduate students. We will examine some of the most exemplary recent monographs in the field as well as analyze the debates of the past four decades. (LA)

HIST 615(6150) The Past in the Present/The Present in the Past: Histories of Tokugawa Japan

Fall. 4 credits. K. Hirano.
This course investigates the interactive play between historians' interpretations of the past

and their concerns with the present. It places an emphasis on the ways in which modern/contemporary historians of Japan interpret early modern thinkers, texts, and events, and the ways such interpretations are shaped by their understandings of Japanese modernity and their aspirations for a better future. The questions we shall address throughout this course are as follows: Why do historians of Japan pay special attention to the early modern period as an epoch indispensable for a better and deeper understanding of Japanese modernity? How do historians' concerns with the present shape the ways in which they interpret the past? How do historians' dialogues with the past (interpretations) alter our perspectives not only on the past but also on the present? (AS)

[HIST 616(6160) Gender and Sexuality in Southeast Asia (also HIST 416[4160], ASIAN 416/618[4416/6618], FGSS 416[4160])]

Spring. 4 credits. Limited to 15 students. Intended for graduate students. Letter grades only. Next offered 2008-2009. T. Loos.]

[HIST 617(6100) Archipelago: Worlds of Indonesia (also HIST 410[4100], ASIAN 409/617[4409/6617])]

Spring. 4 credits. Limited to 15 students. Open to undergraduates and graduate students, although with separate requirements. Next offered 2007-2008. E. Tagliacozzo.]

[HIST 618(6180) Readings in 20th-Century U.S. Political, Intellectual, and Diplomatic History]

Spring. 4 credits. Prerequisite: graduate standing. Next offered 2008-2009. F. Logevall.]

[HIST 619(6190) Seminar in the History of Technology (also S&TS 626[6261])]

Spring. 4 credits. Next offered 2007-2008. Open to graduate students only. R. Kline.]

[HIST 620(6200) Intelligibility in Science]

Spring. 4 credits. Graduate seminar. Next offered 2007-2008. P. Dear.]

[HIST 623(6230) Nation, Empire, and Identity in 17th-Century Historiography]

Fall. 4 credits. Next offered 2008-2009. R. Weil.]

[HIST 626(6260) Graduate Seminar in the History of American Women]

Fall. 4 credits. Next offered 2007-2008. M. B. Norton.]

[HIST 627(6270) Graduate Seminar in Early American History]

Spring. 4 credits. Prerequisite: graduate standing. Permission of instructor required. Next offered 2007-2008. J. Parmenter.]

[HIST 628(6280) Graduate Seminar: 19th-Century U.S. History]

Fall. 4 credits. Next offered 2008-2009. E. Baptist.]

HIST 630(6300) Topics in Ancient History (also CLASS 632[7682])

Fall. 4 credits. E. Rebillard.
For description, see CLASS 632. (EA)

HIST 631(6310) Farmworkers (also HIST 431[4310], LSP 431/631[4310/6310], CRP 395.72/679.72[3850/5850], ILRCB 402[4020])

Spring. 4 credits. R. Craib.
For description, see LSP 431. (LA)

[HIST 633(6330) Topics in Ancient Greek History (also HIST 432[4320], CLASS 436/636[4360/7684])]

Spring. 4 credits. Next offered 2008–2009.
B. Strauss.]

HIST 636 Ancient Warfare (also CLASS 638[7686])

Spring. 4 credits. Prerequisites: at least one course in ancient history and a reading knowledge of Greek and Latin. Permission of instructor required. B. Strauss.

A survey of recent theories, methods and publications as well as readings in Greek and Latin. (EA)

HIST 637(6370) Popular Culture in Europe from the Middle Ages through the 19th Century: Problems in Thinking about Cultural and Social History/Historiography

Fall. 4 credits. S. Kaplan.

An examination of the origins, practices and meanings of popular culture throughout Europe from the Middle Ages to the Commune. After considering the various ways in which "culture" and "popular" can be construed, the seminar will focus on two sets of questions: (1) the specific manifestations of popular culture, its various languages and gestures, and its complex relations with the dominant/elite cultures.; (2) the epistemological, methodological and historiographical issues that arise from this effort to confront cultural and social approaches to "doing" history. (EM)

[HIST 639 Mao and the Chinese Revolution]

Spring. 4 credits. Next offered 2008–2009.
J. Chen.]

[HIST 641(6410) Science, Technology, Gender: Historical Issues (also S&TS 640[6401], FGSS 640[6400])]

Spring. 4 credits. Next offered 2007–2008.
S. Seth.]

[HIST 642(6420) The Politics of History-Writing: Historiography and Post-Colonial Criticism of South Asia]

Spring. 4 credits. Next offered 2007–2008.
D. Ghosh.]

[HIST 648(6480) Historiography of Latin America]

Fall. 4 credits. Next offered 2008–2009.
R. Craib.]

[HIST 649(6481) Seminar in Latin American History]

Fall. 4 credits. Next offered 2007–2008.
M. Roldan.]

[HIST 654(6540) Topics in East-Central European History]

Fall. 4 credits. Next offered 2008–2009.
H. Case.]

HIST 656(6560) Topics in Medieval Historiography (also HIST 456[4560])

Spring. 4 credits. Permission of instructor required. O. Falk.

For description, see HIST 456. (ER)

[HIST 661(6610) Graduate Seminar in 20th-Century German History]

Fall. 4 credits. Permission of instructor required. Next offered 2007–2008. I. Hull.]

HIST 662(6620) Thucydides (also GREEK 672[7172])

Fall. 4 credits. Advanced historical and literary studies in Herodotus. Reading knowledge of ancient Greek required.
H. Rawlings.

[HIST 663(6630) Graduate Seminar in Renaissance History]

Fall. 4 credits. Next offered 2007–2008.
J. Najemy.]

HIST 669(6691) The Old English Laws and Their Politico-Cultural Context (also HIST 469[4691], ENGL 419[4190])

Fall. 4 credits. P. Hyams and T. Hill.
For description, see HIST 469. (ER)

HIST 672(6720) Seminar in European Intellectual History

Fall. 4 credits. D. LaCapra. (EM)

[HIST 676(6760) History and Story in the North Sagas (also HIST 476[4760])]

Spring. 4 credits. Next offered 2008–2009.
O. Falk and T. Hill.]

[HIST 683(6830) Seminar in American Labor History (also ILRCB 783[7081])]

Fall. 3 credits. Prerequisite: graduate standing. Next offered 2007–2008.
N. Salvatore.]

HIST 688(6880) History of Vietnam (also HIST 388[3880], ASIAN 385/685[3385/6685])

Fall. 3 credits. K. Taylor.
For description, see ASIAN 385. (AS)

[HIST 692(6920) Approaches to Medieval Violence (also HIST 491[4910])]

Fall. 4 credits. Next offered 2007–2008.
O. Falk.]

[HIST 694(6940) Problems in Modern Chinese History (also HIST 499[4990], ASIAN 499/694[4499/6694])]

Fall. 4 credits. Prerequisite: HIST 294 or permission of instructor. Next offered 2007–2008. S. Cochran.]

HIST 697 Jim Crow and Exclusion-Era America (also HIST/AAS 497[4970], AM ST 497/697[4970/6970])

Spring. 4 credits. Limited to 15 students.
Next offered 2007–2008. D. Chang.]

[HIST 698(6980) Seminar in Japanese Thought (also ASIAN 698[6698])]

Spring. 4 credits. Prerequisite: reading knowledge of Japanese. Next offered 2008–2009. J. V. Koschmann.]

HIST 709(7090) Introduction to the Graduate Study of History

Fall. 4 credits. Requirement for first-year graduate students. R. Craib and H. Case.
This course is designed to introduce entering graduate students to crucial issues and problems in historical methodology that cut across various areas of specialization. (HR)

HIST 711(7110) Introduction to Science and Technology Studies (also S&TS 711[7111])

Fall. 4 credits. P. Dear.
For description, see S&TS 711. (HS)

HIST 804–807(8004–8007) Supervised Reading

4 credits each semester. Prerequisite: graduate standing. Permission of instructor required. Staff. (HR)

HISTORY OF ART

S. Samuels, acting chair; A. Alexandridis, J. E. Bernstock, M. I. Dadi, M. Fernandez, C. Finley, S. Hassan, C. Lazzaro, K. McGowan, L. L. Meixner, A. Pan, A. Ramage, J. Rickard, C. Robinson, T. Tu

The Department of the History of Art provides a broad range of introductory and advanced courses in Western art (European and North American) and non-Western art (East and Southeast Asian, African), from antiquity to the present.

The Major

Department majors acquire a broad understanding of the history of art in several chronological and geographical areas: ancient, medieval, Renaissance, modern (Europe and North America), Southeast Asia, China, Japan, and Africa. Additionally, majors practice a range of art historical methods and interpretive strategies, including connoisseurship, dendrochronology, feminism, iconography, semiotics, and social history. Majors are encouraged to locate the history of art within allied humanities fields and the applied arts by taking courses in history, literature, history of architecture, and fine arts. The study of foreign languages is strongly encouraged.

Requirements for the Major

Prospective majors should consult the director of undergraduate studies. Students wishing to declare a major in the history of art should have completed any two courses above the 100 level at Cornell in the department by the end of their sophomore year and have received a grade of B- or above in both. Courses must be taken for a letter grade. These courses count toward the total 44 credits. The major in the history of art requires 44 credits, 30 at the 300 level or above. The core requirements are: proseminar; another seminar at the 400 level or above; two courses on art from the following time periods: Ancient Europe, Medieval/Islamic, or Renaissance/Baroque (one course per time period); two courses on art from the three following geographical areas: Africa, Asia, or Latin America (one course per region); and two courses on modern/contemporary art in Europe and North America, including art from outside the Anglo-American tradition. In addition to the 44 credits, majors are required to take two courses, approved by their advisors, in areas related to the history of art.

Honors

To become a candidate for the degree of bachelor of arts with honors in the history of art, a student must have a cumulative average of A- for all courses taken in the department and B+ in all arts and sciences courses. Application to write an honors thesis should be made to the director of undergraduate studies during the second semester of the junior year. Students are advised to enroll in ART H 497 Honors Research at this time. The application must include a summary of the proposed project, an endorsement by a faculty sponsor, and a copy of the student's transcript. In the senior year the honors candidate will include ART H 498 and 499 in his or her course load. These courses address the research and writing of the senior thesis under the direction of the student's project advisor.

Course Numbering System

100-level courses are first-year writing seminars.

200-level courses are introductions to the major subdivisions of Western art and art outside the West.

300-level courses are intermediary courses addressing more specialized topics or epochs.

400-level courses are seminars primarily for advanced undergraduates and graduate students.

500-level courses are seminars primarily for professional level.

600-level courses are seminars primarily for graduate students.

First-Year Writing Seminars

For first-year writing seminar offerings in the history of art, consult the John S. Knight Institute brochure for times, instructors, and descriptions. These courses may not be used to satisfy the distribution requirement or the major.

Courses

ART H 202(2100) Survey of European Art: Renaissance to Modern # (CA)

Summer only. 3 credits. D. Royce-Roll.

The major traditions and movements in western European art from the Renaissance to the modern period. Painting, sculpture, and architecture with an emphasis on painting. Each Friday class meets at the Johnson Museum of Art with gallery talks and viewing of relevant works that supplement the previous four days of classroom lectures.

ART H 209(2190) SSP: The Immigrant Imagination (also AAS 209[2090], AM ST 227[2091]) (HA)

Fall. 4 credits. Limited to 15 students. T. Tu.

Explores how contemporary immigrant experiences are expressed through visual culture. Examines a variety of expressive forms—including visual and material arts, video/performance art, and film—produced by recent immigrants, and considers the ways that they function as a type of “migration narrative.” By doing so, connections are made between visual representations and other modes of narration, including literary and musical. Asks: how do the visual arts operate within immigrant communities as a mode of story-telling or history-making? How have immigrants employed visual culture to narrate their cross-cultural movements, community-building efforts, political struggles, and cultural memories? Is there such a thing as “immigrant art”? If so, what are its characteristics and how does it help to reshape our understanding of contemporary artistic productions?

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. Seminars offer discipline-intensive study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

ART H 219(2019) Thinking Surrealisms (also COM L 220[2200], VISST 219[2190])

Spring. 4 credits. B. Maxwell.

ART H 227 Art and Arkeo/Ancient Med World (also CLASS 227[2727], ARKEO 228[2727])

Fall. 3 credits. S. Manning.
For description, see CLASS 227.

ART H 245(2400) Introduction to Art History: Renaissance and Baroque Art (also VISST 245[2645]) # (HA)

Fall. 4 credits. Each student must enroll in a sec. C. Lazzaro.

Surveys major works of European painting, sculpture, prints, and architecture from 1400 to 1750. Emphasizes the social, religious, and political contexts in which artists worked and the role of patrons in the creative process. Also introduces the art historical approaches through which we interpret these works. Weekly section meetings are required.

[ART H 250(2350) Introduction to Art History: Islamic Art and Culture @ # (HA)

Fall. 4 credits. Next offered 2007–2008. C. Robinson.]

[ART H 255(2355) Introduction to Art History: Medieval Art and Culture # (CA)

Spring. 4 credits. Next offered 2007–2008. C. Robinson.]

ART H 260(2600) Introduction to Art History: The Modern Era (CA)

Spring. 4 credits. Not open to students who have taken ART H 261. Each student must enroll in a sec. J. Bemstock.

Considers modern art in a historical and cultural context, from painting associated with the French Revolution through American pop art. The emphasis is on major movements and artists: Neo-Classicism (David), Romanticism (Delacroix), Realism (Courbet), Impressionism (Monet), Post-Impressionism (Van Gogh), Cubism (Picasso), Fauvism (Matisse), Surrealism (Miro), Abstract Expressionism (Pollock), and Pop Art (Warhol). Different critical approaches are examined.

ART H 261(2601) Introduction to Art History: Modern Art (CA)

Summer. 3 credits. D. Royce-Roll.

Introduction to early modern art as it developed between the French Revolution and the post-World War II era. Both European and American movements are examined, particularly as represented in the Herbert F. Johnson Museum of Art collection where some class meetings are held. The course combines a chronological survey with a brief examination of topics concerning the social condition, the artist's vision, and cultural iconology.

ART H 262(2602) 20th Century Art: Modernism and After (New; Summer) (HA)

Summer. 4 credits. J. Stojanovic.

Since the end of the 19th century, Modernism has been the dominant force in the production of western avant-garde art. However, since the early 1950s many of the values assumed by the modernist avant-garde have come under fundamental scrutiny. The goal of this course is to enable the student to understand these debates while providing an accessible historical progression through 20th-century art. Modernist myths which have

appeared to make art elitist or inaccessible, or simply irrelevant, are examined. We also consider Postmodernism and explore whether the diversity of contemporary art mirrors this 'new' situation. Issues of gender and ethnicity, criticism of the accepted canon of modern art, and important social and political influences upon the institutions of art are incorporated into the discussion of particular works and case studies.

ART H 306(3600) Introduction to Art History: Contemporary Art: 1960 to Present (CA)

Spring. 4 credits. Prerequisite: ART H 260 or equivalent. I. Dadi.

Discusses new art practices since the 1960s. Although numerous artistic experiments took place during the first half of the 20th century, it was with the declining importance of modernist painting and sculpture by the 1960s that newer modes of artistic practice became established. This course explores the rise of Fluxus, Minimalism, Conceptualism, Land Art, Video and Performance, Postmodernism, and Postcolonialism. These practices are located in relation to intellectual and social movements, such as the 1960s counterculture, feminism, race, ecology, institutional critique, and globalization. This course focuses primarily on European and American art but also incorporates selected global developments.

ART H 307(3607) Orientalism and Representation

Fall. 4 credits. I. Dadi.

This course will explore the how the Orient has been represented in Western art, architecture, literature, and media since the 19th century. Popular and scholarly ideas about the Orient and Orientalism have come under increasing scrutiny since the publication of Edward Said's influential critique of Orientalism that explored the persistence of these tropes in historical and literary writings. The course will explore the debates surrounding Said's critique, and also discuss its salience in the analysis of modern and contemporary art and visual culture. The course will include discussions of French Orientalist paintings; Hollywood depictions of the Orient; national independence movements that redeployed colonial textual and visual archives to formulate the national past; and the strategies of artists who have appropriated the trope of Orientalism to create new understandings of hybridity and intercultural encounters.

ART H 322(3202) Arts of the Roman Empire (also CLASS 350[3740]) # (HA)

Fall. 4 credits. Prerequisite: permission of instructor. Staff.

The visual arts in the service of the first world state. Starts with the architecture, painting, and sculpture of the Etruscan and Republican period but concentrates on monuments of the Imperial era in Italy and the provinces until the time of Constantine. Art made for private patrons is considered, along with the official presentations of the emperors.

ART H 343(3443) Art and Society in Early Renaissance Italy # (HA)

Spring. 4 credits. C. Lazzaro.

The new style of Donatello, Masaccio, Brunelleschi, and later Botticelli and Alberti, spread from Florence to the courts of northern Italy. A new urban, educated class, increasingly concerned with material goods, commissioned images celebrating individuals,

family, and the rituals of birth, marriage, and death, as well as contemporary devotional practices.

[ART H 344(3440) Leonardo, Michelangelo, and Raphael # (HA)]
Spring. 4 credits. Next offered 2007–2008.
C. Lazzaro.]

[ART H 345(3445) Rome, Florence, and Venice in the 16th Century # (HA)]
Spring. 4 credits. Next offered 2008–2009.
C. Lazzaro.]

ART H 349(3149) Artistic Identity through Time: From Anonymous to Magnanimous (HA)
Fall. 4 credits. P. Morin.

Surveys the variety of roles artists/architects have assumed, constructed, or negotiated over time. The social economic status of the artists has ranged from priestly demigod to slave, manual laborer to intellectual, bohemian to member of the bourgeoisie, craftsperson to visionary, activist to actor, spectator to hero. Constructions of genius and personal negotiation of identity are explored through a variety of sources, including philosophical texts, biography, treatises, popular press, and film. We consider artistic identity through gender, ethnicity, nationality, and social economic status. Artistic productions including architecture, painting, sculpture, installation, and performance are examined from the time of the Pharaohs to the present day, from Imhotep to Warhol.

ART H 350(3100) History of Photography (LA)

Summer and winter. 4 credits. I. Dadi.
Provides a survey of the history of photography over a course of two centuries. Starting with its invention in the 1830s, this course covers the subject both topically and chronologically. During the 19th century, it focuses on its technical development and on the complex relations that situate photography in relation to painting, portraiture, urban life, war, anthropology, exploration and travel, and science and industry. While these topics continue to be important during the 20th century, photography has been enriched by new developments that include its use as a modernist and experimental art form, in social documentary and photojournalism, in propaganda, in advertising and fashion, and its centrality in the practice of conceptual art, postmodernism, and in the digital age.

[ART H 355(3300) Romanesque and Early Gothic Art and Architecture: Europe and the Mediterranean, 900 to 1150 AD # (LA)]

Fall. 4 credits. Next offered 2008–2009.
C. Robinson.]

[ART H 356(3301) Gothic and the Medieval World # (LA)]
Spring. 4 credits. Next offered 2008–2009.
C. Robinson.]

ART H 360(3740) Painting 19th-Century America (also AM ST 360[3740]) # (CA)

Spring. 4 credits. Recommended: ART H 245. L. L. Meixner.
Interdisciplinary view of art and life in 19th-century America from the colonial era through the Gilded Age. Considers definitions of democratic culture through topical units, including New England portraiture and commodity culture; the art museum in the new republic; genre painting in the Jacksonian

era; Hudson River landscape and railroad expansion; photography and the rising middle class; images of African Americans and Reconstruction; images of Native Americans, Manifest Destiny, and the frontier myth; cosmopolitan taste and robber barons in the Gilded Age. Alongside key paintings, students look at print culture including daguerreotypes, postcards, political prints, photographs, and advertisements.

ART H 362(3760) Impressionism in Society # (CA)

Fall. 4 credits. Not open to freshmen.
Recommended: ART H 245. L. L. Meixner.
Discusses French Impressionist art as products of 19th-century public life. By relating Impressionism to state culture, including Universal Expositions, the course traces subversive themes such as criminality, café and brothel societies, clandestine prostitution, and class-regulated leisure. Students consider images of Parisian spectacle and commodity culture (Manet, Cassatt, Degas, Toulouse-Lautrec) as well as French landscapes (Monet, Van Gogh, Pissarro). Special topics include artists' relationships to novelists (Zola), poets, and the avant-garde theater as well as the construction of the artist and courtesan in Puccini's *La Bohème* and Verdi's *La Traviata*. Images include postcards, playbills, medical photographs, and posters. Organizing our historical units is the theme of power and vision with attention to the female gaze, voyeurism, surveillance, and scopophilia.

ART H 365(3605) U.S. Art from FDR to Reagan (also AM ST 355[3605]) (LA)

Fall. 4 credits. Each student must enroll in a sec. J. E. Bernstock.
Considers the contextual features of American art from the 1930s through the late 1980s. Examines art in relation to contemporary politics, society and literature. A few of the developments on which the course focuses are: Abstract Expressionism, Pop Art, Earth Art, and Feminist Art. Examines various critical approaches.

ART H 366(3650) History and Theory of Digital Art (CA)

Fall. 4 credits. M. Fernandez.
In this course students will examine the role of mechanical, electronic, and digital technologies in the arts of the late 20th and 21st centuries with emphasis on Europe and North America. Beginning with kinetic art and the cybernetically inspired work of the late sixties, we will explore early uses of computer technology, including early work in synthetic video in the 1970s. An overview of pre-Internet telematic experiments will lead to an investigation of net art. The ongoing development of behavioral art forms including interactive art and interactive installation will be a central theme. Critical evaluation of various attitudes concerning technology will be encouraged.

ART H 368(3550) Modern and Contemporary Latin American Art (also LSP 368[3551], LAT A 368[3680]) (HA)

Spring. 4 credits. M. Fernandez.
This course is designed as a thematic survey of Latin American art from the early 20th century to the present. Attention is given to issues such as: the effect of colonialism on Latin America's visual arts, the creation of national artistic styles, the relation of Latin American art and artists to European and American culture centers, the interaction of

high art and popular culture, the role of art criticism on popular perceptions of Latin American Art, and the contributions of Latin American women to various aspects of artistic practice. Special classes will examine border arts and Latin America artists' exploration of electronic technologies.

ART H 371(3171) Architectural History of Washington, D.C. # (HA)

Fall or spring. 4 credits. Prerequisite: students in Cornell in Washington program; nonarchitects. P. Scott.
Historical and critical survey of the architecture of Washington. Attention is given to the periods, styles, architects, and clients—public and private—of the notable buildings and to the urbanscape of the nation's capital. The vocabulary of architectural analysis and criticism is taught. Field trips required.

ART H 378(3510) Introduction to African Art (also AS&RC 310[3501]) @ (LA)

Fall. 3 credits. S. Hassan.
Survey of the visual art and material cultural traditions of sub-Saharan Africa. It aims at investigating the different forms of visual artistic traditions in relation to their historical and sociocultural context. The symbolism and complexity of traditional African art are explored through the analysis of myth, ritual, and cosmology. In-depth analysis of particular African societies is used to examine the relationship of the arts to indigenous concepts of time, space, color, form, and sociopolitical order. New and contemporary art forms associated with major socioeconomic changes and processes of assimilation and accumulation also are explored. These include tourist art, popular art, and elite art.

ART H 380(3800) Introduction to the Arts of China (also ARKEO 380[3880], ASIAN 383[3383]) @ # (LA)

Fall. 4 credits. A. Pan.
This course offers a survey of the art and culture of China, from the Neolithic period to the 20th century. We begin with an inquiry into the meaning of national boundaries and the controversy of the Han Chinese people, which helps us identify the scope of Chinese culture. Pre-dynastic (or prehistoric) Chinese culture is presented through both legends about the origins of the Chinese, and scientifically excavated artifacts. Art of the dynastic and modern periods is presented in light of contemporaneous social, political, geographical, philosophical and religious contexts. Students work directly with objects in the Herbert F. Johnson Museum of Art.

ART H 384(3820) Introduction to the Arts of Japan @ # (LA)

Spring. 4 credits. A. Pan.
As an island nation east of the Asian continent, Japan developed a unique culture that reflects both continental and indigenous characteristics. This course examines pre- and post-contact with continental culture and the process of artistic acculturation and assimilation in successive periods of Japanese art history.

[ART H 390(3520) African American Cinema (LA)]

Fall. 4 credits. Next offered 2007-2008.
C. Finley.]

[ART H 395(3855) The House and the World: Architecture of Asia (also VISST 394[3655]) @ # (HA)]

Spring. 4 credits. Next offered 2007-2008.
K. McGowan.]

[ART H 396(3850) The Arts of Southeast Asia @ # (CA)]

Fall. 4 credits. Next offered 2007-2008.
K. McGowan.]

Seminars

Courses at the 400 to 600 level are open to juniors and seniors, majors, and graduate students unless otherwise stated. All seminars involve the writing and presentation of research papers. Enrollment is limited to 15 students, and *permission of the instructor is required*. Students may repeat courses that cover a different topic each semester.

ART H 400(4100) Proseminar (also VISST 400[4200], ART H 600[6100]) (HA)

Fall. 4 credits. Limited enrollment.

Prerequisite: history of art majors. Grads should enroll in 600. I. Dadi.

Works of art have always engendered political, social, and cultural meanings. This seminar introduces the methods that art historians have engaged in, studying the objects and ideas that constitute the historiography of their discipline. Challenged and enlarged by cultural debates over issues of class, ethnicity, nationality, sexual orientation, and gender, the field of art history is expanding to incorporate problems of assessing quality of intention and reception along with authorship, of artistic production in place of artistic creation, and of Western-oriented attitudes to race in reference to orientalism and colonialism. Readings focus on historically situating methods and the implications of their cross-cultural application. Papers encourage students to put methods into practice, realizing in the process that subject matter is not an isolated choice to which methods are applied, but something that profoundly affects the approach the researcher brings to the writing of art history. In addition to the seminar meeting from 2:30 to 4:30, students are required to attend the Visual Culture Colloquium held on most Mondays from 5:00 to 6:30 P.M.

ART H 401(4991) Independent Study

Fall or spring. 2-4 credits; may be repeated for credit. Prerequisite: permission of department faculty member.

Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

ART H 402(4992) Independent Study

Fall or spring. 2-4 credits; may be repeated for credit. Prerequisite: permission of department faculty member.

Individual investigation and discussion of special topics not covered in the regular course offerings, by arrangement with a member of the department.

ART H 407(4107) The Museum and the Object (also VISST 407[4607]) (CA)

Fall. 4 credits. Prerequisite: history of art majors; freshmen and sophomores by permission of instructor. All classes meet in Johnson Art Museum study gallery.
K. McGowan.

Gives advanced students the opportunity to work directly with original objects from the collection in the Herbert F. Johnson Museum. Focuses on art and connoisseurship by questioning the ways quality is determined in works of art. Topics include methods of attribution, fakes and forgeries, technique and media, restoration and conservation, art education and theories of perception. Session leaders include the curatorial staff of the art museum.

ART H 408(4508) Exhibiting Cultures: Museums, Monuments, Representation and Display (also ART H 608[6508], AS&RC 408/608[4504/6508], AM ST 408/608[4508/6508])

Fall. 4 credits. Grads should enroll in 608.
C. Finley.

This seminar explores the ways in which our contemporary understanding of art, history, and culture is constructed and informed by public display in museums, galleries, and the broader cultural landscape. Using a series of case studies, we consider issues of representation and display and the wider social context in which art and culture are presented. Topics include the 'blockbuster' exhibition, cultural heritage museums, the effect of globalization on the museum industry, recent developments in the monument making and the UNESCO Slave Routes Project. Our specific focus will be on African, African American and African diaspora art and visual culture.

[ART H 410(4310) Methods in Medieval # (CA)]

4 credits. Next offered 2009-2010.
C. Robinson.]

[ART H 411(4311) The Multicultural Alhambra (also SPANL 411[4110])

4 credits. Next offered 2007-2008.
C. Robinson.]

[ART H 412(4312) The Late Medieval Art of Devotion # (HA)]

4 credits. Next offered 2008-2009.
C. Robinson.]

[ART H 413(4113) Race, Technology and Visuality (also AAS 413[4130], AM ST 412[4113]) (CA)]

4 credits. Next offered 2007-2008. T. Tu.]

ART H 414(4114) Popular Culture and Visual Practice in Asian America (also AAS 414[4140], AM ST 414[4114]) (CA)

Spring. 4 credits. T. Tu.

Through a variety case studies, this course examines the forms and practices of Asian American popular culture (including music, film, video, print and visual, decorative, and performance arts) within the historical, social, and economic contexts that have shaped their production. Asks the following questions: What is the relationship of these popular forms to the histories of Asian American community arts? How have Asian Americans' engagements with "the popular" altered "traditional" modes of visual representation, artistic production, and cultural exchange? In this course we also consider how the circulation of Asian popular culture in the United States (from anime to Bollywood and beyond) has informed the styles, fashions, and visual vocabularies of contemporary Asian American culture.

ART H 417(4917) Modern Art and Popular Culture (also S HUM 416, VISST 417[4170])

Fall. 4 credits. Limited to 15 students.
S. Evans.

This course will examine a range of art-historical approaches to the relationship between modern art and popular culture from the 19th century to now. While we will read pertinent critiques by Benjamin, Greenberg, and others of mass culture, we will also investigate the elitist interface as the site at which the social dimension of art production and reception is made manifest. In pursuit of methods more sensitive to the common culture, we will revisit the myth of bohemia via the model of the artist subculture and investigate the social and sociable dimensions of avant-garde projects. We will study Manet, Toulouse-Lautrec, Picasso, Rodchenko, Johns, Fluxus, the Exploding Plastic Inevitable, Collaborative Projects, Sherman, Tiravanija and Bradley.

ART H 421(4021) Undergraduate Seminar in Cultural History (also HIST/AM ST 421[4120])

Fall. 4 credits. M. Kammen.

Topic for fall 2006: Tocqueville's Democracy in America. This seminar will undertake a close reading of the most astute and influential inquiry ever made concerning politics and society in the U.S., Alexis de Tocqueville's Democracy in America (2 vols. 1835-40). In addition, we will read Tocqueville's correspondence concerning the U.S.; some major secondary sources about Tocqueville and his companion Beaumont; two works by "moderns" who have done the "Tocqueville thing" (1982 and 2005); and assess the uses and abuses of Tocqueville's insights in recent American political discourse. How prophetic was this French political philosopher?

[ART H 422(4322) The Late Medieval Devotional Image in Iberia (also NES 422[4722], SPANL 422[4220]) # (CA)]

4 credits. Next offered 2010-2011.
C. Robinson.]

ART H 444(4144) Responsive Environments (also ART H 644[6144]) (CA)

Fall. 4 credits. M. Fernandez.

This seminar will examine notions of interactivity, immersion, and responsiveness in works of art and architecture from the 1950's to present. Select historically significant works in traditional media, telematics, machine sculpture, interactive and digital installation will be explored as well as more recent genres of artistic practice including interactive cinema, locative media and video games. Theorizations of interactivity, addressing narrativity, performativity, embodiment, 'liveness' and the sensual and affective engagement of the user with the work will be discussed, as will the relation of art and surveillance, and the relation of 'high art' interactivity with popular techno-cultural forms. The relevance of these topics to architecture will be a recurrent theme.

[ART H 448(4440) Constructing the Self in the 16th Century # (HA)]

Spring. 4 credits. Next offered 2007-2008.
C. Lazzaro.]

ART H 450(4450) Women in Italian Renaissance Art (also FGSS 451[4510]) # (HA)

Spring. 4 credits. Prerequisite: permission of instructor required. Not open to freshmen or sophomores. C. Lazzaro.

This seminar examines representations of women in Renaissance Italy, including upper class wives, courtesans, religious, biblical, and historical figures, and also women artists. It investigates contemporary ideas about motherhood, beauty, sexuality, creativity, gender roles, and violence to women, and is particularly concerned with how visual images are encoded with meaning.

[ART H 451(4451) Prints and Visual Culture in Early Modern Europe # (HA)]

Fall. 4 credits. Next offered 2007–2008. C. Lazzaro.]

ART H 461(4761) Art and Social Histories (also AM ST 463[4761]) (CA)

Fall and spring. 4 credits. Prerequisite: permission of instructor. Auditing not permitted. L. Meixner.

Topic for fall 2006: The Long 19th Century. This seminar focuses on current scholarship in the long 19th century—1789–1914—that combines the methods of art history and visual culture. We will take a comparative approach to issues explored through gender, race, and class in England, Europe, and the U.S. Framed by the French Revolution and World War I, these include print culture and public laughter, the body and Empire, genre painting and bourgeois audiences, landscape and violence, World's Fairs, spectacle and popular entertainments, and Cubism, science, and anarchy. Topic for spring 2007: American Art and the Machine Age. Seminar examining early modernism in America, between World Wars I and II, with a particular emphasis on the machine and mechanical reproduction. Defines "machine" in the broadest sense to mean the artist, the city, the camera and its consumer by-products including pictorial monthlies such as *Life*, advertisements, comics, and popular entertainments such as vaudeville. Also considers film, with views toward urban surveillance and the mechanized laboring body. Themes include images of women as they shifted from flapper to New Woman, and the emergence of artists representing the Left in painting and theatre. Key artists include the Urban Realists, political cartoonists at *The Masses*, Stieglitz, Steichen, Riis, Hine, the Precisionists, FSA photographers, Evans, and Lange. Considers these alongside the films of Chaplin, Hitchcock, and Capra.

ART H 464(4600) Studies in Modern Art (LA)

Fall and spring. 4 credits. Prerequisite: permission of instructor. No auditors. J. E. Bernstock.

Topic for fall 2006: The Self Image in Modern Art. This seminar focuses on self-imaging and self-imagining in art since the early 19th century. Issues such as personal and cultural identity, the gaze, the other, interior/exterior, and autobiography will be considered in relation to the works of various artists.

Topic for spring 2007: TBD.

[ART H 466(4610) Women Artists (also FGSS 404[4040]) (LA)]

Fall. 4 credits. Next offered 2007–2008. J. E. Bernstock.]

ART H 479(4979) Advanced Seminar in American Literature: Visual Culture in Women's Literature (also ENGL 479[4790], VISST 480[4800], FGSS 479[4790])

Fall. 4 credits. S. Samuels.

This course will explore a concern shared by contemporary women writers and artists. In their works, bodily visibility raises questions about sexuality, race, and mother-daughter relations. They also use fiction and visual culture to show ingestion and forced incorporation. For example, many works emphasize scenes of eating and, contrarily, refusing to eat. Texts may include novels by Dorothy Allison, Tsitsi Dangarembga, Edwidge Danticat, Oonya Kempadoo, Jamaica Kincaid, Maxine Hong Kingston, Toni Morrison, Marilynne Robinson, and Leslie Marmon Silko. Artists examined may include Renee Cox, Mary Kelly, Shirin Neshat, Jolene Rickard, Cindy Sherman, Sally Mann, Bernie Searle, and Kara Walker. Course requirements: Two class presentations, three essays.

ART H 481(4811) Art of the Tang Dynasty (618 to 907) @ # (LA)

Spring. 4 credits. Prerequisite: ART H 383 or course in Chinese history or literature and permission of instructor. A. Pan.

This seminar explores art and culture of the Tang dynasty, China's "golden age," by focusing on new discoveries and museum objects representing court, secular, and Buddhist art. We examine how imperial taste, patronage, and aesthetics influenced painting, calligraphy, gold and silver wares, ceramics, and important architectural and cave-temple sites.

[ART H 482(4840) The Era of Contention: Contemporary Taiwanese Art Since 1987 @ (HA)]

4 credits. Prerequisite: history of art majors; freshmen or sophomores by permission of instructor. Next offered? A. Pan.]

ART H 483(4813) Arts of the Song Dynasty @ # (LA)

Fall. 4 credits. Prerequisite: permission of instructor. A. Pan.

Topic for fall 2006: Tea Ceremony and its diaspora. This seminar focuses on the cultural phenomena of tea cultures in East Asia, namely China, Korea, and Japan. Social, economic, and aesthetic concerns pertaining to tea cultures will be addressed in our weekly discussion.

ART H 491(4690) Comparative Modernities (also ART H 691[6910]) @ (CA)

Spring. 4 credits. I. Dadi.

Since the late 19th century, the effects of capitalism across the globe have been profoundly transformative, and have continued to intensify with the demise of the older colonial empires, the rise of national independent states, and the onset of neoliberal globalization. This transformation is manifested in the constitution of the visible in the domains of high art, mass culture, and popular culture, yet remains inadequately theorized and studied in a comparative context. The recent rise of globalization studies, and the visibility of immigrant cultural practices within the West itself has resulted in the focusing of a near exclusive attention upon contemporary artists working today both in the West and the non-West, and upon historical studies of earlier decades in cases of immigrant and diaspora artists working

in the West. However, the question of visual modernity in the non-West before around 1990—barring a few privileged moments and sites—is largely ignored in art historical scholarship, or studied in geographical isolation. This course will introduce students to the study of non-Western modernist and postmodernist art practice in a comparative framework, by locating them in the context of postcolonial theoretical and methodological approaches. The course is designed as a seminar, and assumes active participation by advanced undergraduate and graduate students who have a prior knowledge of Euro-American modernism and art history, and who wish to better understand the great artistic transformations in the 20th century in a global context.

ART H 497(4997) Honors Research

Fall or spring. 2 credits. Staff.

The prospective honors student does rigorous independent readings supervised by a selected thesis advisor. By the end of the semester, an annotated bibliography and detailed outline of the thesis should be completed.

ART H 498(4998) Honors Work I

Fall or spring. 4 credits. Intended for senior art history majors who have been admitted to the honors program.

Basic methods of art historical research are discussed and individual readings assigned, leading to selection of an appropriate thesis topic.

ART H 499(4999) Honors Work II

Fall or spring. 4 credits. Prerequisite: ART H 498.

The student under faculty direction prepares a senior thesis.

[ART H 506(5505) Contemporary African Diaspora Art (also AS&RC 506[6500])]

Spring. 4 credits. Next offered 2007–2008. C. Finley.]

ART H 540(5440) Nature, Cultural Landscape, and Gardens in Early Modern Europe

Fall. 4 credits. Prerequisite: permission of instructor. C. Lazzaro.

This seminar examines cultural understandings of nature in early modern Europe, especially Italy. It considers concepts of nature, as well as "second nature," "cultural landscape," and "pastoral." The cultural significance of plants, animals, and collections of natural objects is considered, as well as the role of gardens and alteration to the land in the formation of national identity. The focus is on Italian gardens of the 16th and 17th centuries and some French gardens, especially the Versailles of King Louis XIV.

ART H 571(5571) African Aesthetics

Fall. 4 credits. S. Hassan.

This course offers an overview of African cinema and filmmaking. It surveys historically the evolution of African cinema from its early days to the present. Through screening of selected African films, different trends within African cinema will be explored, such as "Return to the Sources" and the rediscovery of the pre-colonial past; the "Social Realist" narrative and critique of post-independence Africa; reconstructing the story of colonialism from the perspective of the colonized; and the entertainment genre. Techniques, style, and aesthetics of African cinema will also be discussed. The course offers a unique opportunity of looking at African culture and

society, and it issues of social change, gender, class, tradition, and modernization through African eyes.

ART H 575(5075) Digital Bodies, Virtual Identities (also COM L 692, ENGL 696, THETR 637)

Fall. 4 credits. T. Murray.

ART H 580(5850) Dancing the Stone: Body, Memory, and Architecture (also THETR 580[5800])

Spring. 4 credits. Prerequisite: permission of instructor. K. McGowan.

[ART H 585(5855) Threads of Consequence: Textiles in South and Southeast Asia

Spring. 4 credits. Next offered 2007-2008. K. McGowan.]

ART H 591-592(5991-5992) Supervised Reading

591, fall; 592, spring. 4 credits; may be repeated for credit. Prerequisite: graduate standing.

ART H 593-594(5993-5994) Supervised Study

593, fall; 594, spring. 4 credit; may be repeated for credit. Prerequisite: graduate standing.

ART H 600(6100) Proseminar (also ART H 400[4100], VISS 400[4200])

Fall. 4 credits. Limited enrollment. Undergraduates should enroll in 400. I. Dadi.

Works of art have always engendered political, social, and cultural meanings. This seminar presents an introduction to the methods which art historians have engaged in, studying the objects and ideas that constitute the historiography of their discipline. Challenged and enlarged by cultural debates over issues of class, ethnicity, nationality, sexual orientation, and gender, the field of art history is expanding to incorporate problems of assessing quality of intention and reception along with authorship, of artistic production in place of artistic creation, and of Western-oriented attitudes to race in reference to orientalism and colonialism. Readings will focus on historically situating methods and the implications of their cross-cultural application. Papers will encourage students to put methods into practice, realizing in the process that subject matter is not an isolated choice to which methods are applied, but something which profoundly affects the approach which the researcher brings to the writing of art history.

ART H 608(6508) Exhibiting Cultures: Museums, Monuments, Representation and Display (also ART H 408[4508], AS&RC 408/608[4504/6508], AM ST 408/608[4508/6508])

Fall. 4 credits. Undergraduates should enroll in 408. C. Finley.

This seminar explores the ways in which our contemporary understanding of art, history, and culture is constructed and informed by public display in museums, galleries, and the broader cultural landscape. Using a series of case studies, we consider issues of representation and display and the wider social context in which art and culture are presented. Topics include the 'blockbuster' exhibition, cultural heritage museums, the effect of globalization on the museum industry, recent developments in the monument making and the UNESCO Slave Routes Project. Our specific focus will

be on African, African American and African diaspora art and visual culture.

ART H 644(6144) Responsive Environments (also ART H 444[4144])

Fall. 4 credits. M. Fernandez.

This seminar will examine notions of interactivity, immersion, and responsiveness in works of art and architecture from the 1950's to present. Select historically significant works in traditional media, telematics, machine sculpture, interactive and digital installation will be explored as well as more recent genres of artistic practice including interactive cinema, locative media and video games. Theorizations of interactivity, addressing narrativity, performativity, embodiment, 'liveliness' and the sensual and affective engagement of the user with the work will be discussed, as will the relation of art and surveillance, and the relation of 'high art' interactivity with popular techno-cultural forms. The relevance of these topics to architecture will be a recurrent theme.

ART H 674(6104) Cyberfeminism (also FGSS 674[6740])

Spring. 4 credits. M. Fernandez.

In this seminar students will investigate the emergence of cyberfeminism in art and theory in the context of feminism/post feminism and the accelerated technological developments of the last thirty years of the 20th century. The course will focus on texts by Donna Haraway, Luce Irigaray, Sadie Plant, Allucquere Rosanne Stone, Elizabeth Grosz and Rosie Braidotti as well as on the work of relevant women artists.

ART H 691(6690) Comparative Modernities (also ART H 491[4690])

Spring. 4 credits. I. Dadi.

For description, see ART H 491.

HUMAN BIOLOGY PROGRAM

J. Haas, nutritional sciences, director (220 Savage Hall, 255-2665); A. Clark (molecular biology and genetics); P. Cassano (nutritional sciences); B. Finlay (psychology); J. Fortune (physiology/women's studies); E. Frongillo (nutritional sciences); R. Johnston (psychology); K. A. R. Kennedy (ecology and systematics/anthropology); D. Levitsky (nutritional sciences); D. L. Pelletier (nutritional sciences); W. Provine (ecology and systematics/history); S. Robertson (human development); R. Savin-Williams (human development); M. Small (anthropology)

Human biology integrates the methods and theories of many disciplines, such as biological anthropology, nutrition, neurobiology, physiology, psychology, demography, ecology, genetics, and paleontology into a comprehensive study of biological diversity in *Homo sapiens*. A central focus of this interdisciplinary approach to the study of the human organism is an understanding of evolutionary processes that explain our biological variation through space and time. The curriculum of study seeks to educate future biological scientists to address the concerns of a society that is becoming more demanding of the scientific community to place its specialized biological knowledge in a broad context. The human biology curriculum is of particular relevance to undergraduate students in premedical and predentistry programs, biological anthropology, nutrition, human development, ecology and evolutionary biology, psychology,

physiology, genetics, and the health-related sciences. It serves to bring together students who have a common interest in humankind as defined from these diverse fields and to provide a forum for student-faculty interaction on various topics relating to human evolution and biological diversity. Human biology is not a major but a curriculum of study that provides majors in various departments and colleges with a program for selecting elective courses that deal with the biology of the human species. Students after their freshman year may develop a program of study in human biology while majoring in any one of a number of different departmental fields.

Basic Requirements

The requirements for a program of study in human biology are designed to ensure sufficient background in physical sciences and mathematics to enable the student to pursue a wide range of interests in the fields of modern biological sciences, anthropology, and fields related to the evolution and biological diversity of the human species. Adjustments may be made in these requirements, depending on the student's academic background and affiliation with colleges and schools within the university.

The basic requirements are one year of introductory biology (BIO G 101-103 plus 102-104 or 105-106 or BIO G 107-108 offered during the eight-week Cornell Summer Session); one year of general chemistry (CHEM 207-208 or 215-216); one year of college mathematics (MATH 111-112 or 105-106 or 111-105); one course in genetics (BIO G 280, 281, or 282); one course in biochemistry (BIO G 330, 331, 332, or 333 or NS 320). It is recommended that students planning graduate study in biological anthropology, psychology, and related fields in the medical and nutritional sciences take a course in statistics. Students should consult their faculty advisor in human biology for help in selecting appropriate courses.

Elective courses should be taken that enable the student to acquire breadth in the subject matter of human biology outside of their departmental major. Therefore only 6 of the 15 human biology elective credits may also fulfill requirements for the major. Courses should be selected that also provide sufficient exposure to the integration of basic anatomical and physiological sciences with the behavior of individuals and groups within the context of evolutionary theory and ecology. The courses listed below are representative of the offerings in human biology and are included to assist the student in organizing a curriculum of study. They are organized into three groups that reflect the three levels of integration noted above: (1) human anatomy and physiology, (2) human behavior, and (3) human evolution and ecology. Students should choose at least one course from each of these areas of integration. It is anticipated that the student will include in a program of study at least one of the laboratory courses offered. It is expected that a student will take a minimum of 15 credits from among these courses.

There is no foreign language requirement for human biology beyond what is dictated by specific departments and colleges. The requirements for the human biology curriculum are set alongside requirements of the undergraduate majors as these are defined by different departments. Students with independent majors may design their

own programs of study under the guidelines provided by their college. Although a student may indicate an interest in human biology in the freshman year and be able to obtain early guidance from a faculty advisor representing the curriculum of study, it is more usual for students to establish their course programs in the first semester of the junior year. The student may request one of the faculty advisors in his or her department who is listed as faculty in human biology to be their principal advisor, or he or she may have an advisor in the department of the major and seek the advice of a human biology faculty advisor in matters pertaining to satisfaction of the requirements. In certain cases a faculty advisor may represent both the major and the curriculum of study in human biology.

Courses

Human Anatomy and Physiology

AN SC 410(4100) Nutritional Physiology and Metabolism
Fall. 3 credits.

BIOAP 214(2140) Biological Basis of Sex Differences (also B&SOC 214[2141], FGSS 214[2140])
Spring. 3 credits.

BIOAP 311(3110) Introductory Animal Physiology, Lectures (also VETPH 346[3460])
Fall. 3 credits.

BIOAP 319(3190) Animal Physiology Experimentation
Fall. 4 credits.

BIOAP 427(4270) Fundamentals of Endocrinology
Fall. 3 credits.

BIOAP 458(4580) Mammalian Physiology
Spring. 3 credits.

BIOBM 434(4340) Applications of Molecular Biology to Medicine, Agriculture, and Industry
Fall. 3 credits.

BIOBM 439(4390) Molecular Basis of Human Disease (also BIOGD 439[4390])
Fall. 3 credits.

BIOEE 274(2740) The Vertebrates: Structure, Function, and Evolution
Spring. 4 credits.

BIOGD 487(4870) Human Genomics
Fall. 3 credits.

BIOMI 417(4170) Medical Parasitology (also VETMI 431[4310])
Fall. 2 credits.

NS 115(1150) Nutrition, Health, and Society
Fall. 3 credits.

NS 222(2220) Maternal and Child Nutrition
Fall. 3 credits.

NS 315(3150) Obesity and the Regulation of Body Weight (also PSYCH 613[3150])
Spring. 3 credits.

NS 331(3310) Physiological and Biochemical Bases of Human Nutrition
Spring. 4 credits.

NS 341(3410) Human Anatomy and Physiology
Spring. 4 credits.

NS 361(3610) Biology of Normal and Abnormal Behavior (also PSYCH 361[3610])
Fall. 3 credits.

NS 421(4210) Nutrition and Exercise
Spring. 3 credits.

NS 431(4310) Mineral Nutrition and Chronic Disease
Fall. 3 credits.

NS 441(4410) Nutrition and Disease
Fall. 4 credits.

NS 475(4750) Mechanisms Underlying Mammalian Developmental Defects (also BIOAP 475[4750])
Spring. 3 credits.

NS 614(6140) Topics in Maternal and Child Nutrition
Fall. 3 credits.

PSYCH 322(3220) Hormones and Behavior (also BIONB 322[3220])
Fall. 3 or 4 credits.

PSYCH 425(4250) Cognitive Neuroscience
Fall. 4 credits.

PSYCH 460(4600) Human Neuroanatomy
Spring. 3 credits.

Human Behavior

ANTHR 208(3308) Anthropology of Human Mating (also BIONB 208[2080])
Spring. 3 credits.

ANTHR 390(3390) Primate Behavior and Ecology
Spring. 4 credits.

ANTHR 490(4930) Topics in Biological Anthropology
Spring. 4 credits.

BIONB 327(3270) Evolutionary Perspectives on Human Behavior
Fall. 3 credits.

BIONB 331(3310) Human Sociobiology
Spring. 3 credits.

BIONB 392(3920) Drugs and the Brain
Fall. 4 credits.

BIONB 421(4210) Effects of Aging on Sensory and Perceptual Systems (also PSYCH 431/631[4310/6310])
Fall. 3 or 4 credits.

BIONB 422(4220) Modeling Behavioral Evolution
Spring. 4 credits.

BIONB 424(4240) Neuroethology (also PSYCH 424[4240])
Spring. 3 credits.

BIONB 427(4270) Animal Social Behavior
Fall. 4 credits.

BIONB 428(4280) Clinical Neurobiology
Fall. 3 credits.

BIONB 431(4310) Genes and Behavior
Spring. 3 credits.

BIONB 496(4960) Bioacoustic Signals in Animals and Man
Fall. 3 credits.

BIOPL 247(2470) Ethnobiology
Fall. 3 credits.

BIOPL 348(3480) The Healing Forest
Spring. 2 credits.

BIOPL 442(4420) Current Topics in Ethnobiology
Fall. 3 credits.

DEA 325(3250) Human Factors: Ergonomics—Anthropometrics
Fall. 3 credits.

DEA 350(3500) Human Factors: The Ambient Environment
Spring. 3 credits.

HD 220(2200) The Human Brain and Mind: Biological Issues in Human Development (also COGST 220[2200])
Fall. 3 credits.

HD 266(2660) Emotional Functions of the Brain
Spring. 3 credits.

HD 320(3200) Human Developmental Neuropsychology
Spring. 3 credits.

HD 344(3440) Infant Behavior and Development
Fall. 3 credits.

HD 366(3660) Psychobiology of Temperament and Personality
Fall. 3 credits.

HD 433(4330) Developmental Cognitive Neurosciences (also COGST 433[4330])
Spring. 3 credits.

NS 245(2450) Social Science Perspectives on Food and Nutrition
Fall. 3 credits.

NS 347(3470) Human Growth and Development: Biological and Behavioral Interactions (also HD/B&SOC 347[3470])
Spring. 3 credits.

NS 361(3610) Biopsychology of Normal and Abnormal Behavior (also PSYCH 361[3610])
Fall. 3 credits.

PAM 380(3800) Human Sexuality
Spring. 4 credits.

PSYCH 223(2230) Introduction to Biopsychology
Fall. 3 credits.

PSYCH 332(3320) Biopsychology of Learning and Memory (also BIONB 328[3280])
Spring. 3 credits.

PSYCH 326(3260) Evolution of Human Behavior
Spring. 4 credits.

PSYCH 422(4220) Developmental Biopsychology
Fall. 4 credits.

PSYCH 425(4250) Cognitive Neuroscience (also BIONB 423[4230])
Fall. 4 credits.

PSYCH 427(4270) Evolution of Language (also COGST 427[4270])
Fall. 3 credits.

PSYCH 440(4400) The Brain and Sleep
Fall. 4 credits.

Human Evolution and Ecology

ANTHR 101(1300) Introduction to Anthropology: Biological Perspectives on the Evolution of Humankind

Fall. 3 credits.

ANTHR 203(2200) Early People: The Archaeological and Fossil Record (also ARKEO 203[2200])

Spring. 3 credits.

ANTHR 375(3375) Evolutionary Theory and Human Behavior

Spring. 4 credits.

ANTHR 390(3390) Primate Behavior and Ecology

Spring. 4 credits.

ANTHR 490(4390) Topics in Biological Anthropology

Spring. 4 credits.

BIOEE 261(2610) Ecology and the Environment

Fall or summer. 4 credits.

BIOEE 275(2750) Human Biology and Evolution (also NS 275[2750])

Fall. 3 credits.

BIOEE 278(2780) Evolutionary Biology

Fall or spring. 3 or 4 credits.

BIOEE 371(3710) Human Paleontology

Fall. 4 credits.

BIOEE 464(4640) Macroevolution

Spring. 4 credits.

BIOEE 469(4690) Food, Agriculture, and Society

Spring. 3 credits.

BIOEE 671(6710) Paleoanthropology of South Asia (also ANTHR 671[6671], ASIAN 671[6731])

BIOEE 673(6730) Human Evolution: Concepts, History, and Theory (also ANTHR 673[6373])

Spring. 3 credits.

BIOGD 481(4810) Population Genetics

Fall. 4 credits.

BIOGD 482(4820) Human Genetics and Society

Fall. 4 credits.

BIOGD 484(4840) Molecular Evolution

Spring. 3 credits.

BIOGD 487(4870) Human Genomics

Fall. 3 credits.

B&SOC 447(4471) Seminar in the History of Biology (also HIST 415[4150], S&TS 447[4471])

Summer. 4 credits.

D SOC 201(2010) Population Dynamics (also SOC 202[2202])

Spring. 3 credits.

D SOC 410(4100) Health and Survival Inequalities (also SOC 410[4100])

Fall. 4 credits.

NS 306(3060) Nutritional Problems of Developing Nations

Spring. 3 credits.

NS 450(4500) Public Health Nutrition

Spring. 3 credits.

NS 451(4510) Epidemiology and Health of Human Communities

Fall. 3 credits.

NS 452(4520) Molecular Epidemiology and Dietary Markers of Chronic Disease

Spring. 3 credits.

NS 457(4570) Economics of Hunger and Malnutrition (also ECON 474[4740])

Spring. 3 credits.

PAM 303(3030) Ecology and Epidemiology of Health

Fall. 3 credits.

PSYCH 326(3260) Evolution of Human Behavior

Spring. 4 credits.

PSYCH 427(4720) Evolution of Language (also COGST 427[4270])

Fall. 3 credits.

VETMI 431(4310) Medical Parasitology (also BIOMI 417[4170])

Fall. 2 credits.

VTPMD 664(6640) Introduction to Epidemiology

Fall. 3 credits.

HUNGARIAN

See "Department of Linguistics" and "Russian."

INDEPENDENT MAJOR PROGRAM

J. Finlay, director, 55 Goldwin Smith Hall, 255-5004.

The Independent Major Program is described in the introductory section of "College of Arts and Sciences."

IM 351(3510) Independent Study

Fall or spring. 1-4 credits. Prerequisite: permission of program director.

IM 499(4990) Honors Research

Fall or spring. 1-8 credits; max. of 8 credits may be earned for honors research. Prerequisite: permission of program director. Each participant must submit brief proposal approved by Honors Committee.

INDONESIAN

See "Department of Asian Studies."

INEQUALITY CONCENTRATION

363 Uris Hall
www.inequality.cornell.edu
254-8674

The study of inequality lies at the heart of current debates about welfare reform, affirmative action, the "glass ceiling," globalization, and any number of other contemporary policy issues. In recent years, public and scholarly interest in issues of inequality has intensified, not merely because of historic increases in income inequality in the United States and other advanced industrial countries, but also because inequalities of race, ethnicity, and gender are

evolving in equally dramatic and complicated ways.

The inequality concentration allows undergraduate students to supplement their studies for their major with a coherent program of courses oriented toward the study of inequality. Although Cornell University is a leading center of scholarship on poverty and inequality, this strength is necessarily distributed across many departments and colleges; an interdisciplinary concentration thus allows students to combine these resources into an integrated program of study. The institutional home for the inequality concentration is the Center for the Study of Inequality (located at 363 Uris Hall and at www.inequality.cornell.edu).

The inequality concentration is appropriate for students interested in government service, policy work, and related jobs in non-governmental organizations (NGOs) as well as students who wish to pursue post-graduate education in such fields as public policy, economics, government, law, history, psychology, sociology, anthropology, literature, and philosophy. In many of these fields, the study of inequality is becoming increasingly central and fundamental, and the inequality concentration can therefore provide students with a valuable and unique foundation for further study.

The inequality concentration is not a major but rather is an interdisciplinary program that should be completed in conjunction with a major. The concentration is open to students enrolled in any of the seven Cornell undergraduate colleges. If the requirements of the concentration are met, a special notation to this effect will be recorded on the transcript.

Concentration Requirements

The inequality concentration exposes students to the breadth of approaches, methods, and topic areas on offer while also allowing them to tailor a program to their particular interests. The requirements are as follows:

1. Overview Course

The required overview course may be selected from any of the eight courses listed below. When possible, the overview course should be completed early in the program, as it serves to define the field and to expose students to areas and topics that might be explored in future course work.

- Income Distribution (ILRLE 441)
- Inequality, Diversity, and Justice (PHIL 193, CRP/GOVT/SOC 293)
- Power and Poverty in America (GOVT 310)
- Social Inequality (SOC 208 and D SOC 209)
- Comparative Social Stratification (D SOC 370 and SOC 371)
- Social Inequality: Contemporary Theories, Debates, and Models (SOC 518)
- Introduction to Social Inequality (SOC 108)
- Inequality and Social Science (SOC 221)

2. Controversies About Inequality

(PHIL 195, SOC/PAM/ILROB/D SOC/GOVT 222)

This 3-credit course introduces students to current controversies in the study of inequality while facilitating interdisciplinary dialogue between concentrators and faculty members at Cornell University. Students are exposed to research on inequality under way at Cornell presented by guest lecturers and also participate in debates on pressing inequality-relevant issues (e.g., welfare reform, school vouchers, immigration policy, affirmative action).

3. Electives

In addition to the overview course and core course, students must select four electives from the list of qualified courses. This list can be viewed on the web site for the Center for the Study of Inequality, www.inequality.cornell.edu. Although students may tailor their programs to match their interests, the electives and overview course must be distributed across at least three departments (thereby ensuring breadth in the analytic approaches that are represented).

4. Lectures and Seminars

The Center for the Study of Inequality (CSI) hosts occasional lectures and symposia, and concentrators are expected to attend them when possible. These events will be announced via e-mail and are also listed on the center web site, www.inequality.cornell.edu.

Enrolling in the Concentration

The web site for the Center for the Study of Inequality, www.inequality.cornell.edu, provides current information on the Inequality Concentration. For students considering the concentration, it may be useful to schedule a meeting with the assistant to the director (inequality@cornell.edu).

Sample Programs

The inequality concentration allows students considerable flexibility in devising programs that reflect their interests. As examples of possible programs, we have listed below sample tracks, each comprising a different set of possible electives. The first program listed below is a general track that provides an overview of the field, while the remaining nine programs are more specialized and focus on particular issues within the field. This sampling of programs is obviously illustrative and does not cover the entire wide range of interests that may be addressed within the concentration.

General Track

The objective of the general track is to provide a broad foundation that addresses both the many forms of inequality (e.g., class, gender, ethnic) as well as the various approaches and perspectives (e.g., economic, sociological, historical) that have been brought to bear on these forms. The sample schedule outlined below is just one of many possible programs that meets this generalist objective.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ECON/ILRLE/GOVT 222)
3. *Possible Electives:*
Economics of Hunger and Malnutrition (ECON 474, NS 457)

Race, Power, and Privilege in the United States (AS&RC 280)

Gender Inequality (SOC 316)

Social Welfare as a Social Institution (PAM 383)

Globalization and Inequality

As a global economy takes hold, there has been increasing concern that economic inequalities will grow apace, especially North-South inequalities between rich and poor countries. The countervailing "optimistic view" is that between-country disparities will in the long run wither away and render inequality an entirely internal, within-country affair. These and related lines of argumentation can be explored in courses that address such topics as trends in income inequality, theories of economic development, emerging patterns of international migration, and globalization and gender.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ECON/ILRLE/GOVT 222)
3. *Possible Electives (choose any four):*
International Development (D SOC 205, SOC 206)
Economic Development (ECON 371)
Labor Markets and Income Distribution in Developing Countries (ILRIC 635)
Globalization and Inequality (SOC 320)
Indigenous Peoples and Globalization (D SOC 325)
Comparative Ethnic Stratification: Demographic Perspectives (D SOC 431/631)
Global Perspectives on Gender (AS&RC 362)
Sex and Gender in Cross-Cultural Perspective (ANTHR 321/621, FGSS 321/631)
Human Migration: Internal and International (D SOC 430)
Gender and International Development (FGSS/CRP 614)
Politics of Transnationalism (GOVT 681)

Social Policy and Inequality

In the modern period, inequalities generated in the market and through other social institutions are typically regarded as excessive, and the state is seen as the main tool for redistribution, discrimination abatement, equalization of life chances, and related forms of amelioration. The social policy and inequality track explores the role of the state in generating and reducing inequalities of various kinds.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*
Organizations and Social Inequality (SOC 322, ILROB 626)
The Sociology of Markets (SOC 217)
Sociology of Markets (ILROB/SOC 622)
Economic Security (ILRLE 340, ECON 451)

Employment Discrimination and the Law (ILRCB 684)

Human Resource Economics and Public Policy (ILRHR 360)

Employee Relations and Diversity (ILRHR 463)

Social Welfare as a Social Institution (PAM 383)

Applied Public Finance (PAM 204)

Introduction to Policy Analysis (PAM 230)

Critical Perspectives (PAM 240)

Introduction to Policy Management (PAM 320)

Intermediate Policy Analysis (PAM 330)

Demography and Family Policy (PAM 371)

Social Policy (SOC 326/526)

Social Policy (PAM 473)

Social Policy and Social Welfare (CRP 448/548)

Policy Analysis: Welfare Theory, Agriculture, and Trade (ECON 430, AEM 630)

Economic Analysis of the Welfare State (ILRLE 642, ECON 460)

Families and Social Policy (HD 456)

Health and Social Behavior (HD/SOC 457)

Public Policy and the African-American Urban Community (AS&RC 420)

Seminar: Beliefs, Attitudes, and Ideologies (PSYCH 489, FGSS 488)

Feminist Jurisprudence (LAW 646)

Political Economy of Education (EDUC 378)

Research on Education Reform and Human Resource Policy (ILRHR 653)

The Ethics of Inequality

Charges of social injustice are often charges of excessive inequality. What are the political, philosophical, and legal debates that are relevant to such judgements? Under what conditions should rich countries assist poor ones? At what point should governments step in and redistribute income? When should parents pass on their wealth to their children? The ethics of inequality track examines the conditions under which inequalities might be deemed legitimate or illegitimate, evaluates prevailing inequalities and social policy as against this yardstick, and explores the larger role of values in popular and scholarly judgments about inequality.

1. *Overview Course:* Inequality, Diversity, and Justice (PHIL 193, SOC/CRP/GOVT 293)
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives:*

A. Ethics Courses (choose two)

Values in Law, Economics, and Industrial Relations (ILRCB 607)

Appropriation and Alienation (PHIL 142)

Global Thinking (PHIL 194, GOVT 294)

Modern Political Philosophy (PHIL 346, GOVT 462)

Contemporary Political Philosophy (PHIL 447, GOVT 465)

International Justice (PHIL 448, GOVT 492)

Feminism and Philosophy (PHIL/FGSS 249)

Marx (PHIL 219)

Marx: An Overview of His Thought (ANTHR 368)

B. Social Science Classes (choose two)

Select courses in consultation with advisor (see list of electives below).

Poverty and Economic Development

Over the past century, rich countries have of course become yet richer, while less developed countries remain burdened with massive poverty. The courses listed below examine the sources and causes of world poverty, the rise of global anti-inequality social movements, and the types of policy interventions that might stimulate economic development and reduce poverty.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*
 - Economic Development (ECON 371)
 - Population and Development (D SOC 438, SOC 437)
 - International Justice (PHIL 448, GOVT 492)
 - Economics of Development (ECON 466, AEM 666)
 - Land Reform Old and New (D SOC 643)
 - Issues in African Development (CRP 477/677)
 - Labor Markets and Income Distribution in Developing Countries (ILRIC 635)
 - Global Perspectives on Gender (AS&RC 362)
 - Population, Environment, and Development in Sub-Saharan Africa (D SOC 495)
 - Gender and International Development (FGSS/CRP 614)
 - Politics of Transnationalism (GOVT 681)
 - Economics of Malnutrition and Hunger (NS 457, ECON 474)

Social Movements and Inequality

The history of modern society may be seen in large part as a history of anti-inequality social movements (e.g., the Enlightenment, socialism, the union movement, the civil rights movement, feminism) interspersed with occasional inequality-inducing reactions (e.g., the post-socialist transition). The social movements track examines the causes, effects, and likely future of such social movements and the reactions they spawn.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*
 - Utopia in Theory and Practice (SOC 115)

Social Movements (D SOC 311)

Social Movements in American Politics (GOVT/AM ST 302)

Poor People's Movements (GOVT 456)

Group Conflict and the Nation-State (SOC 531)

Social Movements (SOC/GOVT 660)

Politics of Transnationalism (GOVT 681)

Feminism Movements and the State (GOVT/FGSS 353)

Comparative Labor Movements in Latin America (ILRIC 631)

Union Organizing (ILRCB 400)

Theories of Industrial Relations Systems (ILRCB 606)

Revitalizing the Labor Movement: A Comparative Perspective (ILRIC 632)

Women and Unions (ILRCB/FGSS 384)

History of Resistance Movements in Africa and the Diaspora (AS&RC 283)

Latina Activism Feminist Theory (LSP 300)

Prisons (GOVT 314)

Education and the Reproduction of Inequality

In the contemporary period, the study of inequality has increasingly turned on the study of formal education, as schools have become the main institutional locus for training and credentialing workers and for signaling potential employers about (putative) worker quality. The inequality and education track examines educational institutions and how they are organized, how they generate equality and inequality, and how possible institutional changes (e.g., vouchers, required testing) might affect the reproduction of inequalities.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*
 - Introduction to Education (EDUC 101)
 - Sociology of Education (EDUC 271)
 - Education, Inequality, and Development (D SOC 305)
 - Schooling and Society (SOC 357)
 - Issues in Educational Policy (EDUC 370)
 - Political Economy of Education (EDUC 378)
 - The Politics of Education (GOVT 406)
 - Research on Education Reform and Human Resource Policy (ILRHR 653)
 - Education, Technology, and Productivity (ILRHR 695)
 - Educational Finance (EDUC 664)
 - Education in Africa and the Diaspora (AS&RC/EDUC 459)
 - Education and Development in Africa (AS&RC 502)

Race and Ethnicity in Comparative Perspective

This program of study examines the many forms of racial and ethnic inequality as revealed across different times and places. When race and ethnicity are examined from an explicitly comparative perspective, it

becomes possible to identify regularities and better understand the forces of competition, conflict, and subordination among ethnic and racial groups. The courses listed below address such issues as the causes of discrimination, the implications of residential segregation for inequality, the sources of ethnic and racial differences in income, the effects of anti-inequality reform efforts (e.g., affirmative action), and the possible futures of ethnic and racial stratification.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*

A. General Courses

- Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (AM ST/LSP 110)
- Race and Ethnic Relations (SOC 204)
- Race, Power, and Privilege in the United States (AS&RC 280)
- History and Politics of Racialization: A Comparative Study (AS&RC 204)
- Sociology of Health and Ethnic Minorities (LSP/D SOC 220)
- Prisons (GOVT 314)
- Minority Politics in the United States (GOVT/LSP 319)
- Concepts of Race and Racism (GOVT 377)
- Comparative Ethnic Stratification: Demographic Perspectives (D SOC 431/631)
- Race, Gender, and Organization (GOVT/FGSS 415)
- Employee Relations and Diversity (ILRHR 463)
- Ethnicity and Identity Politics: An Anthropological Perspective (ANTHR 479)
- Political Identity: Race, Ethnicity, and Nationalism (GOVT/LSP 610)

B. Immigration and Ethnicity

- Comparative Migration to the Americas (LSP 203, HIST 202, AM ST 204)
- Strangers and Citizens: Immigration and Labor in U.S. History (ILRCB 302)
- Immigration and Ethnic Identity (SOC/AAS 438)
- Human Migration: Internal and International (D SOC 430)
- The Immigrant City: 1900 to 2000 (LSP/S HUM/AM ST 406, HIST 412)
- Immigration and the American Labor Force (ILRHR 469)
- Immigration and Ethnicity in 20th-Century United States (HIST 201)
- Immigration and Refugee Law (LAW 731)

C. Case Studies

- African-American Social and Political Thought (AS&RC 231)
- African-American Women in the 20th Century (HIST/AM ST/FGSS 212)
- African-American History from Slavery to Freedom (HIST 335)

The African-American Workers, 1865 to 1910: The Rural and Urban Experience (HIST 375, ILRCB 385)

The African-American Workers, 1910 to The Present: Race, Work, and the City (HIST 376, ILRCB 386)

African-American Women in Slavery and Freedom (HIST/AM ST 303, FGSS 307)

Public Policy and the African-American Urban Community (AS&RC 420)

Politics and Social Change in Southern Africa (AS&RC 484)

Global Africa: Comparative Black Experience (AS&RC 501)

Afro-American Historiography (HIST 610)

African-American Women (HIST 608)

Latinos in the United States (SOC/D SOC 265, LSP 201)

Introduction to U.S. Latino History, Part I (LSP/HIST 260, AM ST 259)

Introduction to U.S. Latino History, Part II (LSP/HIST/AM ST 261)

Latina Activism Feminist Theory (LSP 300)

Latino Politics in the United States (LSP/GOVT 306)

Introduction to Asian American Studies (AAS 110)

Asian American History (AAS/HIST 213)

Asians in the Americas: A Comparative Perspective (AAS/ANTHR 303)

Introduction to American Indian Studies (AIS/D SOC 100)

Indian America in the 20th Century (AIS/D SOC 175)

Indians, Settlers, and Slaves in the Early South (AIS/HIST 329)

Antisemitism and the Crisis of Modernity: From the Enlightenment to the Holocaust (HIST/JWST 459)

The Family and Inequality

Although workers in modern labor markets are often analytically treated as independent individuals, they of course typically belong to families that pool the labor supply of their members, consume goods jointly, and serve in some circumstances as units of collective production. It might therefore be asked how the modern labor market has adapted to and evolved in the context of the family (and, conversely, how the family has responded to the market). The courses within this track explore such issues as the causes and consequences of the intrafamilial division of labor, the effects of marriage and family structure on careers, and the transmission of socioeconomic advantage from one generation to the next.

1. *Overview Course (choose any one)*
2. *Controversies About Inequality* (PHIL 195, SOC/PAM/ILROB/GOVT 222)
3. *Possible Electives (choose any four):*
Work and Family (SOC/FGSS 203)
Demography and Family Policy (PAM 371)
Families and Social Policy (HD 456)

Families and the Life Course (SOC 251, HD 250)

Parent-Child Development in African-American Families (HD 458)

The Sociology of Marriage (SOC/FGSS 309)

Seminar in Family Studies and the Life Course (HD 655)

Contemporary Family Theory and Research (HD 650)

Economics of Household Behavior (PAM 605)

Politics and Culture SOC 248/GOVT 363

Inequality, Diversity, and Justice SOC 293/GOVT 293/CRP 293/PHIL 193

INFORMATION SCIENCE

C. Cardie, director; J. Abowd, W. Y. Arms G. Bailey, K. Bala, M. Barazangi, L. Blume, R. Caruana, R. Constable, D. Easley, S. Edelman, E. Friedman, G. Gay, J. Gehrke, T. Gillespie, P. Ginsparg, C. Gomes, J. Halpern, J. Hancock, A. Hedge, D. Huttenlocher, T. Joachims, J. Kleinberg, L. Lee, A. Leiponen, B. Lust, M. Macy, P. Martin, T. Pinch, R. Prentice, M. Rooth, D. Seber, B. Selman, P. Sengers, D. Shmoys, M. Spivey, D. Strang, E. Tardos, E. Wagner, J. Walther, S. Wicker, D. Williamson, C. Yuan.

The Major

Information Science (IS) is an interdisciplinary field that explores the design and use of information systems in a social context: the field studies the creation, representation, organization, application, and analysis of information in digital form. The focus of Information Science is on systems and their use rather than on the computing and communication technologies that underlie and sustain them. Moreover, Information Science examines the social, cultural, economic, historical, legal, and political contexts in which information systems are employed, both to inform the design of such systems and to understand their impact on individuals, social groups, and institutions.

Courses in the Information Science (IS) major are assigned to three area-based tracks:

Human-Centered Systems This area examines the relationship between humans and information, drawing from human-computer interaction and cognitive science.

Information Systems This area examines the computer science problems of representing, organizing, storing, manipulating, and accessing digital information.

Social Systems This area studies the cultural, economic, historical, legal, political, and social contexts in which digital information is a major factor.

Students must complete a set of 11 core courses: one introductory course, four courses in mathematics and statistics, and two courses from each of the three IS area-based tracks. Students must also obtain depth in two tracks—a primary and a secondary track—that together best represent their interests. In particular, completion of the major requires four advanced courses from the selected

primary track and three advanced courses from the secondary track.

Requirements

Core (11 courses)

1. Introductory (one course):
INFO 130 Introductory Design and Programming for the Web
2. Math and Statistics (four courses):
MATH 111 Calculus I
either MATH 231 Linear Algebra with Applications or MATH 221 Linear Algebra and Differential Equations
INFO 295 Mathematical Methods for Information Science

One of the following:

MATH 171 Statistical Theory and Application in the Real World

H ADM 201 Hospitality Quantitative Analysis

AEM 210 Introductory Statistics

PAM 210 Introduction to Statistics

ENGRD 270 Basic Engineering Probability and Statistics (or equivalent)

BTRY 301 Statistical Methods I

SOC 301 Evaluating Statistical Evidence

CEE 304 Uncertainty Analysis in Engineering

ILRST 312 Applied Regression Methods

ECON 319 Introduction to Statistics and Probability

PSYCH 350 Statistics and Research Design

3. Human-Centered Systems (two courses):
INFO 214 Cognitive Psychology
INFO 245 Psychology of Social Computing
4. Information Systems (two courses):
COM S 211 Computers and Programming
INFO 230 Intermediate Design and Programming for the Web
5. Social Systems (two courses):
either ECON 301 Microeconomics or ECON 313 Intermediate Microeconomic Theory
one of the following: INFO 292 Inventing an Information Society, INFO 355 Computers: From the 17th Century to the Dot.com Boom, or INFO 356 Computing Cultures

Where options in the core courses exist, the choice will depend on the student's interests and planned advanced courses for the selected primary and secondary tracks.

Tracks

Students must complete four advanced courses in their primary track and three advanced courses in their secondary track, selected from those listed below. Human-Centered Systems and Information Systems can be used as primary or secondary tracks. Social Systems can be used only as a secondary track.

Courses taken to satisfy the core course requirements may not be used to fulfill the track requirements.

Additional information on Information Science courses can be found below and

in the "Computing and Information Science (CIS)" section of *Courses of Study*. Course information for all other courses in the major can be found in the relevant departments (e.g., AEM, COM S, S&TS).

Human-Centered Systems

PSYCH 342 Human Perception: Applications to Computer Graphics, Art, and Visual Display*

INFO 345 Human-Computer Interaction Design

PSYCH 347 Psychology of Visual Communications

PSYCH 380 Social Cognition*

PSYCH 413 Information Processing: Conscious and Unconscious

PSYCH 416 Modeling Perception and Cognition

INFO 440 Advanced Human-Computer Interaction Design

INFO 445 Seminar in Computer-Mediated Communication

INFO 450 Language and Technology

DEA 470 Applied Ergonomic Methods

* Students who take PSYCH 342 may also count its prerequisite, PSYCH 205, toward the Human-Centered Systems primary or secondary track requirements. Similarly, students who take PSYCH 380 may also count PSYCH 280 toward the Human-Centered Systems primary or secondary track requirements. At most, one of PSYCH 205 or PSYCH 280 can be counted toward the primary or secondary track requirements.

Information Systems

INFO 330 Data-Driven Web Applications

COM S 419 Computer Networks

LING 424 Computational Linguistics

INFO 430 Information Retrieval

INFO 431 Web Information Systems

COM S 432 Introduction to Database Systems

COM S 465 Computer Graphics I

COM S 472 Foundations of Artificial Intelligence

LING 474 Introduction to Natural Language Processing

OR&IE 474 Statistical Data Mining

COM S 478 Machine Learning

OR&IE 480 Information Technology

COM S 501 Software Engineering

COM S 513 System Security

INFO 530 Architecture of Large-Scale Information Systems

OR&IE 574 Statistical Data Mining

COM S 578 Empirical Methods in Machine Learning and Data Mining

Social Systems

SOC 304 Social Networks and Social Processes

AEM 322 Technology, Information, and Business Strategy*

INFO 349 Media Technologies

INFO 355 Computers: From the 17th Century to the Dot.com Boom

INFO 356 Computing Cultures

ECON 368 Game Theory (formerly ECON 467)*

INFO 387 The Automatic Lifestyle: Consumer Culture and Technology

LAW 410 Limits on and Protection of Creative Expression—Copyright Law and Its Close Neighbors

S&TS 411 Knowledge, Technology, and Property

ECON 419 Economic Decisions under Uncertainty

INFO 429 Copyright in a Digital Age

INFO 435 Seminar on Applications of Information Science

OR&IE 435 Introduction to Game Theory*

S&TS 438 Minds, Machines, and Intelligence

INFO 447 Social and Economic Data

H ADM 474 Strategic Information Systems*

ECON 476/477 Decision Theory I and II

INFO 515 Culture, Law, and Politics of the Internet

*Only one of OR&IE 435 and ECON 368 may be taken for IS credit. Only one of AEM 322 and H ADM 474 may be taken for IS credit.

Admission

All potential affiliates are reviewed on a case-by-case basis relative to the following criteria:

- Completion of four core courses, one in each of the core course areas listed above (i.e., Math and Statistics, Human-Centered systems, Information Systems, and Social Systems). Courses must be taken for a letter grade.
- A grade of C or better in each of the completed core courses with an overall GPA for these courses of 2.5 or more.

Courses used in the affiliation GPA computations may be repeated if the original course grade was below a C. The most recent grade will be used for all repeated courses. Qualifying courses must be taken at Cornell.

Honors

To qualify for departmental honors, a student must have:

- maintained a cumulative GPA greater than or equal to 3.5;
- completed INFO 435 Seminar on Applications of Information Science;
- completed 3 additional credits of IS course work at or above the 500 level (graded courses only; no seminars or 2-credit project courses; these courses are in addition to the primary and secondary track requirements);
- completed 6 credits of INFO 490 Independent Study and Research with an IS faculty member, spread over at least two semesters and with grades of A- or better. It is expected that the research pursued in INFO 490 will result in a project report.

The Concentration

A concentration in Information Science is also available to students in the College of Arts and Sciences, CALS, AAP (Architecture and Planning students only), Engineering, Human Ecology, Hotel, and ILR. The concentration has been designed to ensure that students have substantial grounding in all three tracks: Human-Centered Systems, Information Systems, and Social Systems. Detailed information about the concentration can be found in the CIS section of *Courses of Study*. Students are also referred to www.infosci.cornell.edu/ugrad/concentrations.html for the most up-to-date description of the concentration and its requirements.

Courses

For complete course descriptions, see the Information Science listings under Computing and Information Science (CIS).

INFO 130(1300) Introductory Design and Programming for the Web (also COM S 130[1300])

Fall. 3 credits.

For description, see COM S 130 in CIS section.

INFO 172(1700) Computation, Information, and Intelligence (also COGST 172, COM S 172[1700], ENGRI 172[1700]) (MQR)

Fall. 3 credits. Prerequisites: some knowledge of differentiation; permission of instructor for students who have completed equivalent of COM S 100.

For description, see COM S 172 in CIS section.

INFO 204(2040) Networks (also ECON 204[2040], SOC 204[2120]) (SBA)

Spring. 4 credits.

For description, see ECON 204.

INFO 214(2140) Cognitive Psychology (also COGST 214[2140], PSYCH 214[2140]) (KCM)

Fall. 3 credits. Limited to 175 students.

Prerequisite: sophomore standing.

Graduate students, see COGST 501, INFO/PSYCH 614.

For description, see PSYCH 214.

INFO 230(2300) Intermediate Design and Programming for the Web (also COM S 230[2300])

Spring. 3 credits. Prerequisite: COM S/INFO 130 or equivalent.

For description, see COM S 230 in CIS section.

INFO 245(2450) Psychology of Social Computing (also COMM 245[2450])

Fall. 3 credits.

For description, see COMM 245.

INFO 292(2921) Inventing an Information Society (also AM ST 292[2980], ECE/ENGRG 298[2980], HIST 292[2920], S&TS 292[2921]) (HA)

Spring. 3 credits; may not be taken for credit after ECE/ENGRG 198.

For description, see ENGRG 298.

INFO 295(2950) Mathematical Methods for Information Science

Fall. 4 credits. Corequisite: MATH 231 or equivalent.

For description, see INFO 295 in CIS section.

INFO 330(3300) Data-Driven Web Applications (also COM S 330[3300])

Fall. 3 credits. Prerequisite: COM S/ENGRD 211.

For description, see COM S 330 in CIS section.

INFO 345(3450) Human-Computer Interaction Design (also COMM 345[3450])

Spring. 3 credits.

For description, see COMM 345.

INFO 349(3491) Media Technologies (also COMM 349[3490], S&TS 349)

Spring. 3 credits.

For description, see COMM 349.

INFO 355(3551) Computers: From the 17th Century to the Dot.com Boom (also S&TS 355[3551]) (HA)

Fall. 4 credits.

For description, see S&TS 355.

[INFO 356(3561) Computing Cultures (also S&TS 356[3561]) (CA)]

Spring. 4 credits. Prerequisite: none. Next offered 2007–2008.

For description, see S&TS 356.]

INFO 372(3720) Explorations in Artificial Intelligence

Spring. 3 credits. Prerequisites: MATH 111 or equivalent, an information science approved statistics course, and COM S 211 or permission of instructor.

For description, see INFO 372 in CIS section.

[INFO 387(3871) The Automatic Lifestyle: Consumer Culture and Technology (also S&TS 387[3871])]

Spring. 4 credits. Next offered 2007–2008.

For description, see S&TS 387.]

[INFO 429(4290) Copyright in the Digital Age (also COMM 429[4290])]

Fall. 3 credits. Next offered 2007–2008.

For description, see COMM 429.]

INFO 430(4300) Information Retrieval (also COM S 430[4300])

Fall. 3 credits. Prerequisite: COM S/ENGRD 211 or equivalent.

For description, see COM S 430 in CIS section.

INFO 431(4302) Web Information Systems (also COM S 431[4302])

Spring. 3 credits. Prerequisites: COM S 211 and some familiarity with web site technology.

For description, see COM S 431 in CIS section.

INFO 435(4390) Seminar on Applications of Information Science (also INFO 635[6390])

- Spring. 3 credits. Prerequisites: background in computing, data structures, and programming at level of COM S 211 or equivalent, and experience in using information systems.

For description, see INFO 435 in CIS section.

INFO 440(4400) Advanced Human-Computer Interaction Design (also COMM 440[4400])

Fall. 3 credits. Prerequisite: COMM/INFO 245.

For description, see COMM 440.

INFO 445(4450) Seminar in Computer-Mediated Communication

Fall. 3 credits. Prerequisites: COMM/INFO 245.

For description, see COMM 445.

INFO 447(4470) Social and Economic Data (also ILRLE 447[4470])

Spring. 4 credits. Prerequisites: one semester of calculus, IS statistics requirement, at least one upper-level social science course, or permission of instructor.

For description, see INFO 447 in CIS section.

INFO 450(4500) Language and Technology (also COMM 450[4500])

Spring. 3 credits. Prerequisite: COMM 240 or COMM/INFO 245 or permission of instructor.

For description, see COMM 450.

INFO 490(4999) Independent Reading and Research

Fall, spring. 1–4 credits.

Independent reading and research for undergraduates.

INFO 491(4910) Teaching in Information Science, Systems, and Technology

Fall, spring. Variable credit.

Involves working as a TA in a course in the information science, systems, and technology major.

INFO 515(5150) Culture, Law, and Politics of the Internet

Fall. 4 credits.

For description, see INFO 515 in CIS section.

INFO 530(5300) The Architecture of Large-Scale Information Systems (also COM S 530[5300])

Spring. 4 credits. Prerequisite: COM S/INFO 330 or COM S 432.

For description, see COM S 530 in CIS section.

INFO 614(6140) Cognitive Psychology (also PSYCH 614[6140])

Fall. 3 credits.

For description, see PSYCH 614.

INFO 630(6300) Human Language Technology (also COM S 630[6300])

Spring. 4 credits. Prerequisite: basic knowledge of linear algebra and probability theory and basic programming skills.

For description, see COM S 630 in CIS section.

INFO 634(6341) Information Technology in Sociocultural Context (also S&TS 634[6341])

Spring. 4 credits. Prerequisite: permission of instructor.

For description, see S&TS 634.

INFO 635(6390) Seminar on Applications of Information Science (also INFO 435[4390])

Spring. 3 credits. Prerequisites: background in computing, data structures, and programming at level of COM S 211 or equivalent, and experience using information systems. Undergraduates and master's students should register for INFO 435; Ph.D. students should register for INFO 635.

For description, see INFO 635 in CIS section.

INFO 640(6400) Human-Computer Interaction Design (also COMM 640[6400])

Fall. 3 credits. Prerequisite: graduate standing or permission of instructor.

For description, see COMM 640.

INFO 645(6450) Seminar in Computer-Mediated Communication (also COMM 645[6450])

Spring. 3 credits. Prerequisite: graduate standing or permission of instructor.

For description, see COMM 645.

INFO 648(6648) Speech Synthesis by Rule (also LING 648[6648])

Spring. 4 credits. Prerequisite: LING 401, 419, or permission of instructor.

For description, see LING 648.

INFO 650(6500) Language and Technology (also COMM 650[6500])

Spring. 3 credits. Prerequisite: graduate standing or permission of instructor.

For description, see COMM 650.

INFO 651(6002) Critical Technical Practices

Fall or spring. 4 credits. Prerequisites: graduate-level training in human-computer interactions, science & technology studies, visual studies, communication, or equivalent, or permission of instructor.

For description, see INFO 651 in CIS section.

INFO 685(6850) The Structure of Information Networks (also COM S 685[6850])

Fall or spring. 4 credits. Prerequisite: COM S 482.

For description, see COM S 685 in CIS section.

INFO 709(7090) IS Colloquium

Fall, spring. 1 credit. For staff, visitors, and graduate students interested in information science.

INFO 747(7400) Social and Economic Data (also ILRLE 740[7400])

Spring. 4 credits. Prerequisites: open to Ph.D. and research master's students only.

For description, see INFO 747 in CIS section.

INFO 790(7900) Independent Research

Fall, spring. Variable credit. Prerequisite: permission of an information science faculty member.

Independent research for M.Eng. students and pre-A exam Ph.D. students.

INFO 990(9900) Thesis Research

Fall, spring. Variable credit. Prerequisite: permission of an information science faculty member.

Thesis research for post-A exam Ph.D. students.

INTERNATIONAL RELATIONS CONCENTRATIONOffice: 152 Uris Hall, 254-5004, www.einaudi.cornell.edu/irc/ D. R. Lee (AEM), director**Objective**

The International Relations (IR) Concentration is an interdisciplinary program for undergraduate students enrolled in any of the seven Cornell undergraduate colleges. The IR Concentration provides a structured yet flexible program for undergraduates to take advantage of the vast resources available at the university for studying the politics, economics, history, languages, and cultures of the countries and regions of the world.

Graduates of the program have gone on to pursue further education in fields such as political science and anthropology and to successful careers in international law, economics, agriculture, trade, finance, international development, and government service, among others. They have gone on to work in international and nongovernmental organizations, in cross-cultural affairs, in journalism, and in education.

The International Relations Concentration is not a major or a department, but rather a program offering a selection of courses reaching across colleges and departments. Students pursue the IR Concentration in addition to their regular degree. Students concentrating in international relations have majored in fields ranging from anthropology, city and regional planning, communications, economics, government, and history to natural resources, industrial and labor relations, and computer science. International course work and language study add a global and cross-cultural dimension to those majors. Some students even design an independent major in some aspect of international relations or comparative social or cultural studies. Spending a semester or year of study abroad can contribute to meeting the course requirements of the IR Concentration, including the language requirement.

Course Requirements

These requirements are designed to expose students to a broad range of perspectives in international relations while allowing them to tailor their course selections to specific interests. Courses throughout the university are grouped into four subject areas, including:

1. International Economics and Development
2. World Politics and Foreign Policy
3. Transnational Processes and Policies
4. Cultural Studies

Within these four subject areas, courses are also identified as "core" or "elective." Students must complete altogether eight courses from the four groups according to one of two options. Option A emphasizes the politics and economics of international relations. Option B puts greater stress on culture. In choosing either option, students should ensure that they acquire familiarity with more than one geographic region or country. All courses used to fulfill the concentration requirements must be taken for a letter grade. Courses can count both toward a major and the International Relations Concentration.

Option A: One core course from each of Groups 1, 2, 3, and 4; one elective from each of Groups 1, 2, 3, and 4

Option B: One core course from each of Groups 1, 2, 3, and 4; One elective from either Group 1 or Group 2—One elective from Group 3 and 4, and one additional elective from either Group 3 and Group 4

Before pre-registration a course list for the following semester (as well as lists for the current and previous semesters) can be obtained from the administrative coordinator in 152 Uris Hall, as well as from the web site. Note: These lists are not necessarily complete. Other courses throughout the university qualify for the IR Concentration by prior arrangement.

Language Requirement

Students in the IR Concentration are expected to complete additional language study beyond the College of Arts and Sciences' degree requirement (for those in Arts and Sciences). This study can be accomplished in one of two ways: (1) two years of one foreign language (proficiency plus one course); (2) two languages at proficiency.

Study Abroad

Students in the IR Concentration are encouraged to study abroad to bring a practical dimension to their expertise in international issues. Those who choose this option will find the requirements for the concentration highly compatible with courses taken abroad. Students are encouraged to contact the administrative coordinator before departure.

Completion

Transcripts will reflect successful completion of the requirements for the Concentration. In addition, students will receive a special certificate and a letter of confirmation signed by the director of the IR Concentration and the director of the Mario Einaudi Center for International Studies.

Enrollment

To obtain course lists, to enroll and for all further information, please contact the IR administrative coordinator, Mario Einaudi Center for International Studies, 152 Uris Hall, 254-5004.

Course List for 2005-2006

Core course options and selected electives are listed below; other electives are possible. Most courses are offered one semester only. Offerings may change, so see the administrative coordinator, course roster, and IR web site for updates and further details.

Group 1: International Economics and Development

Core:

ECON/AEM 230 International Trade and Finance

AEM 429 International Finance

AEM 430 International Trade Policy

ECON 361 International Trade Theory

ECON 362 International Monetary Theory and Policy

Electives:

AEM 432 Business and Governments in Global Marketplace

AEM 433/CRP 412 Development, Privatization, and New Public Management

ECON 324 American Economic History

ECON 371 Economic Development

ECON/ILRLE 444 Evolution of Social Policy in Britain and America

ECON/AEM 450 Resource Economics

ECON/AEM 464 Economics of Agricultural Development

CRP 327 Regional Economic Impact Analysis

CRP 371 Cuba: The Search for Development Alternatives

CRP 417 Economic Development: Firms, Industries, and Regions

GOVT 330/ILRIC 333 Politics of the Global North

GOVT 354 Capitalism, Competition, and Conflict

ANTHR 384 Africa in the Global Economy

Group 2: World Politics and Foreign Policy

Core:

GOVT 181 Introduction to International Relations

Electives:

GOVT 302 Social Movements in American Politics

GOVT 332 Modern European Politics

GOVT 400 Democracy in Latin America

GOVT 424 Contemporary American Politics

GOVT 482 Unifying While Integrating: China and the World

AS&RC 311 Government and Politics in Africa

AS&RC 451 Political and Social Change in Caribbean

HIST/AM ST 214 American Foreign Policy

HIST 252 Modern Eastern Europe

HIST 289/ASIAN 298 The U.S.-Vietnam War

HIST/LAT A 306 Modern Mexico: From Independence to the Zapatistas

HIST 371 World War II in Europe

HIST 414 Motivations of U.S. Foreign Policy

Group 3: Transnational Processes and Policies

Core:

GOVT/PHIL 294 Global Thinking

GOVT 393 Introduction to Peace Studies

Electives:

AEM 432 Business and Governments in Global Marketplace

ECON/AEM 464 Economics of Agricultural Development

CRP 384 Green Cities

CRP 453 Environmental Aspect of International Planning

HD 483 Early Care and Education in Global Perspective

D SOC 275 Immigration and a Changing America

ILRCB 304 Seminar in American Labor and Social History

ILRHR 469 Immigration and the American Labor Force

IARD 300 Perspectives in International Agricultural and Rural Development

IARD/FD SC 402 Agriculture in the Developing Nations I

IARD 494 Special Topics in International Agriculture

NTRES 332 Ethics and the Environment

NTRES 494 History of the Environment Sciences

Group 4: Cultural Studies

Core:

ANTHR 102 Introduction to Anthropology: The Comparison of Cultures

ANTHR 200 Cultural Diversity and Contemporary Issues

Electives:

ANTHR/AIS 230 Cultures of Native North America

ANTHR/AAS 303 Asians in the Americas

ANTHR 316 Power, Society, Culture in Southeast Asia

ANTHR/FGSS 321 Sex and Gender in Cross-Cultural Perspective

ANTHR 335 Situation of China's Minorities

ANTHR/AM ST 353 Anthropology of Colonialism

ANTHR/LSP/AM ST 377 The United States

ART H 245 Renaissance and Baroque

ART H 250/NES 247 Introduction to Art History: Islamic Art and Culture

ART H 322/CLASS 350 Arts of the Roman Empire

ART H 365/AM ST 355 U.S. Art from FDR to Reagan

ART H 378/AS&RC 310 Art in African Culture and Society

AS&RC/ENGL 255 African Literature

AS&RC 310/ART H 378 Introduction of African Art

AS&RC 455 Caribbean Literature

AS&RC/EDUC 459 Education in Africa Diaspora

AS&RC 478 Family and Society in Africa

ASIAN 191 Introduction to Modern Asian History

ASIAN 208 Introduction to Southeast Asia

ASIAN 211 Introduction to Japan

ASIAN/MUSIC 245 Gamelan in Indo Culture

COM L 386 Literature and Film of South Asia

COM L 387/AS&RC 332 20th Black Culture Movement

COM L 489/ENGL 483/THETR 483 Comparative 20th-Century Anglophone Drama

COM L/ITAL 495 Fascist Culture

ENGL 274 Scottish Literature and Culture

ENGL 333 The 18th-Century Novel

ENGL 340 The English Romantic Period

FGSS/SPANL 246 Contemporary Narratives by Latina Writers

FILM 293/NES 293/JWST 291 Sophomore Seminar: Middle Eastern Cinema

FILM/GERST 396 German Film

FRLIT 221 Modern French Literature

FRLIT 224/HIST 270 The French Experience

FRLIT 321 Readings in Modern French Literature and Culture

FRLIT 323 Reading Francophone Literature and Culture

FRLIT 370 The French Enlightenment

HIST 151/AM ST 103 Introduction to Western Civilization

HIST 153 Introduction to American History

HIST/ASIAN 191 Introduction to Modern Asian History

HIST 195 Colonial Latin America

HIST 211/AM ST 251 Black Religious Traditions

HIST/FGSS/ASIAN 219 Women in South Asia

HIST 252 Modern Eastern Europe

HIST 291/JWST 252 Modern European Jewish History 1789 to 1948

HIST 305 Britain, 1660 to 1815

HIST 326 History of the British Empire

HIST/AM ST 345 19th-Century American Cultural History

HIST/ENGRG 357 Engineering in American Culture

HIST 360 Early Warfare, East and west

HIST 364/COM L 362/ENGL 325 Culture of the Renaissance II

HIST 388/ASIAN 385 Vietnamese Histories

HIST 395/ASIAN 397 Premodern Southeast Asia

HIST/LAT A 404 Race and Ethnicity in Latin America

HIST 429/SPANL 448 Cervantes-Mediterranean World

HIST 452 History of the New Europe

HIST 453/NES 457/RELST 457 Formation of Islamic Law

HIST 483/CLASS 475/RELST 475 Christianization/Roman World

HIST/ASIAN 492 Medieval Chinese History

ILRCB/AM ST 306 Recent History of American Workers

ITAL 290 Perspectives in Italian Culture

ITAL 297 Introduction to Italian Literature

ITAL 300 Italian Practicum

KRLIT 405 Readings in Korean Literature

NES 254 Introduction to Near Eastern Civilizations

NES/JWST/RELST 275 Religions of Ancient Israel

NES 366/JWST 366 011-229 The History and Archaeology of the Ancient Near East

NES 447 Middle Eastern Music Ensemble

RUSSEL 369 Dostoevsky

RUSSEL 499 The Avant-Garde in Russian Literature and the Arts

SOC/NES 332 Martyrdom in Contemporary Society

SOC 478 Family and Society in Africa

SPANL 218 Introduction to Hispanic Literature

SPANL 301 Hispanic Theater Production

SPANL 319 Renaissance Hispanism

SPANL 323 Reading Latin American Civilization

THETR 242 Introduction to World Theatre III

ITALIAN

See "Department of Romance Studies."

JAPANESE

See "Department of Asian Studies."

JAVANESE

See "Department of Asian Studies."

PROGRAM OF JEWISH STUDIES

D. I. Owen, director (Ancient Near Eastern History and Archaeology; Assyriology; Biblical History and Archaeology), L. Adelson (German-Jewish Literature and Culture), D. Bathrick (Holocaust Film Studies), R. Brann (Judeo-Islamic Studies), V. Caron (Modern French and European-Jewish History), M. Diesing (Yiddish Language and Linguistics), K. Haines-Eitzen (Early Judaism and Early Christianity), P. Hohendahl (German Literature), R. Hoffmann (Holocaust Studies), P. Hyams (Medieval Jewish History), D. LaCapra (Holocaust Studies), M. Migiel (Italian Literature), C. Monroe (Near Eastern Mediterranean Studies; Nautical Archaeology), L. Monroe (Hebrew Bible Studies), R. Polenberg (American-Jewish History), D. Powers (Islamic History and Law), E. Rebillard (Jews in the Roman Empire), N. Scharf (Hebrew Language), D. Schwarz (Anglo-Jewish Literature), G. Shapiro (Russian-Jewish Literature), S. Shoer (Hebrew Language), T. Sorek (Sociology and Anthropology), D. Starr (Modern Hebrew and Arabic Literature; Critical Theory; Middle Eastern Film), P. Stevens (curator), S. M. Toorawa (Arabic Literature and Islamic Studies), J. Zorn (Biblical Archaeology). Emeritus: N. Furman, J. Porte, E. Rosenberg, Y. Szekely.

The Program of Jewish Studies was founded as an extension of the Department of Semitic Languages and Literatures, now the Department of Near Eastern Studies, in 1973 and attained status as an intercollegiate program in 1976.

The program has grown out of the conviction that Judaic civilization merits its own comprehensive and thorough treatment and that proper understanding of any culture is inconceivable without adequate knowledge of the language, literature, and history of the people that created it. Accordingly, the offerings in the areas of Jewish languages and literatures have been considerably expanded, and courses in ancient, medieval, and especially modern Jewish history and culture have been added to the program.

It is a broadly based, interdisciplinary program, bringing together faculty from various Cornell departments and colleges.

The Program of Jewish Studies supports teaching and research in the many areas of Jewish Studies. It is a secular, academic program, whose interests are diverse and cross-cultural. The program recognizes its special relationship to teaching and research in classical Judaica and Hebraica pursued by the members of the Department of Near Eastern Studies, with particular emphasis on the interrelationship between Judaism, Christianity, and Islam.

It presently enables students to obtain basic instruction and specialization in the fields of Semitic languages; the Hebrew Bible; medieval and modern Hebrew literature; ancient, medieval, and modern European and Middle Eastern Jewish history; and Holocaust studies. In some of these fields students may take courses on both graduate and undergraduate levels. Faculty throughout the university provide breadth to the program by offering courses in related areas of study.

For more information, please visit www.arts.cornell.edu/jwst/index.html.

Courses Offered

JWST 101-102(1101-1102) Elementary Modern Hebrew I and II (also NES 101-102[1101-1102])

101, fall; 102, spring, 4 credits. Letter grades only. S. Shoer.

For description, see NES 101-102.

JWST 103(1103) Elementary Modern Hebrew III (also NES 103[1103])

Fall, 4 credits. N. Scharf.

For description, see NES 103.

JWST 200(2100) Intermediate Modern Hebrew (also NES 200[2100])

Spring, 4 credits. N. Scharf.

For description, see NES 200.

JWST 223(2623) Introduction to the Hebrew Bible (also NES/RELST 223[2623])

Fall, 3 credits. L. Monroe.

For description, see NES 223.

JWST 244(2644) Introduction to Judaism (also NES 244[2644], RELST 244[2644])

Spring, 3 credits. L. Monroe.

For description, see NES 244.

JWST 251(2651) Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam (also HIST 269[2691], NES/RELST 251[2651])

Fall, 3 credits. R. Brann.

For description, see NES 251.

JWST 253(2850) From Medievalism to Modernity: The History of Jews in Eastern Modern Europe, 1492-1789 (also HIST 285[2850])

Fall, 4 credits. V. Caron.

For description, see HIST 285.

JWST 261(2661) Ships and Seafaring: Introduction to Nautical Archaeology (also NES 261[2661])

Spring, 3 credits. C. Monroe.

For description, see NES 261.

JWST 262(2662) Daily Life and the Cultural Landscape of the Biblical World (also ARKEO 260[2662], NES 262[2662], RELST 261[2662])

Fall, 3 credits. J. Zorn.

For description, see NES 262.

JWST 266(2666) Jerusalem Through the Ages (also RELST/NES/ARKEO 266[2666])

Spring, 3 credits. J. Zorn.

For description, see NES 266.

JWST 268(2668) Ancient Egyptian Civilization (also ARKEO/NES 268[2668])

Fall, 3 credits. C. Monroe.

For description, see NES 268.

JWST 290[2670] History of Zionism (also HIST 286[2861])

Spring, 4 credits. V. Caron.

For description, see HIST 267.

JWST 291(2793) SSP: Middle Eastern Cinema (also NES 293[2793], FILM/COM L 293[2930], VISS 293[2193])

Fall, 4 credits. D. Starr.

For description, see NES 293.

JWST 301(3101) Advanced Intermediate Modern Hebrew (also NES 301[3101])

Fall, 4 credits. N. Scharf.

For description, see NES 301.

JWST 305(3105) Conversational Hebrew (also NES 305[3105])

Spring, Variable to 3 credits. Limited to 15 students. Prerequisite: NES 301, 400, or permission of instructor; non-native speakers only. N. Scharf.

For description, see NES 305.

JWST 384(3784) Israeli Literature: Between Self and Nation (also NES 384[3784])

Spring, 3 credits. D. Starr.

For description, see NES 384.

JWST 332(3832) Martyrdom in Contemporary Societies (also NES 332[3832])

Spring, 4 credits. Staff.

For description, see NES 332.

JWST 364(3664) Ancient Iraq I: Origins of Mesopotamian Civilization (also NES/ARKEO 364[3664], NES/JWST 664[6664])

Fall, 4 credits. D. I. Owen.

For description, see NES 364.]

JWST 395(3895) Israeli Society (also NES 395[3695], SOC 390[3900])

Fall, 4 credits. T. Sorek.

For description, see NES 395.

JWST 400(4100) Seminar in Advanced Modern Hebrew (also NES 400[4100])

Fall, 4 credits. Limited to 15 students.

N. Scharf.

For description, see NES 400.

JWST 401(4101) Modern Hebrew Literature (also NES 401[4101])

Spring, 4 credits. D. Starr.

For description, see NES 401.

JWST 420(4102) Biblical Hebrew Prose—Joshua (also NES/RELST 420[4102])

Fall, 4 credits. L. Monroe.

For description, see NES 420.

JWST 438(4738) Imagining the Mediterranean (also NES 438[4738], COM L 496[4960])

Fall, 4 credits. G. Holst-Warhaft.

For description, see NES 438.

JWST 453(4330) History of Modern German Jewry: From the Enlightenment to the Post-1945 Era (also HIST 433[4330], GERST 433[4330])

Fall, 4 credits. V. Caron.

For description, see HIST 433.

JWST 466(4666) History of Israelite Religion (NES 466[4666])

Spring, 4 credits. L. Monroe.

For description, see NES 466.

JWST 470 Power and Wealth in Ancient Civilizations (also NES 470)

Spring, 4 credits. C. Monroe.

For description, see NES 470.

JWST 474(4740) Topics in Modern Europe: Intellectual and Cultural History (also JWST 674[6740], HIST 474[4740], COM L 474[672][4740/6720])

Fall, 4 credits. D. LaCapra.

For description, see HIST 474.

JWST 630(6230) Judeo-Arabic Literature (also NES 630[6230])

Fall, 4 credits. R. Brann.

For description, see NES 630.

JWST 491-492(4991-4992) Independent Study—Undergraduate

Fall and spring. Variable credit. Staff.

Courses not offered 2006-2007

JWST 236 Israel: Literature and Society (also NES 236)

JWST 248 Introduction to Classical Jewish History (also RELST/NES 248)

JWST 255 Women and the Holocaust (also ENGL/FGSS 252)

JWST 271 Yiddish Linguistics (also LING 241)

JWST 299 The Hebrew Bible and the Arabic Qur'an in Comparative Perspective (also NES/RELST/COM L 299)

JWST 323 Reinventing Biblical Narrative Apocrypha and Pseudepigrapha (also NES/RELST 323)

JWST 328 Gnosticism and Early Christianity (also NES 328, RELST 330)

JWST 344 The History of Early Christianity (also NES 324, CLASS 344, RELST 325)

JWST 371 A Mediterranean Society and Its Culture: The Jews under Classical Islam (also NES/RELST/COM L 371)

JWST 435 Aramaic (also NES 435)

JWST 449 Rescreening the Holocaust (also GERST 449, COM L 453, THEAT 450)

JWST 494 Studies in the Novel: Reading Joyce's Ulysses (also ENGL 470)

JWST 639 Islamic Spain: Culture and Society (also NES 339/639, JWST 339, RELST/COM L 334, SPANL 339/699)

JWST 694 Joyce's Ulysses and the Modern Tradition (also ENGL 670)

JOHN S. KNIGHT INSTITUTE FOR WRITING IN THE DISCIPLINES

The director of the John S. Knight Institute is Paul Lincoln Sawyer, professor in the Department of English. Katherine Gottschalk, senior lecturer in the Department of English, is the Walter C. Teagle Director of First-Year Writing Seminars. The institute's offices are in 101 McGraw Hall, 255-4061.

M. Gilliland (Writing Workshop), K. Hjortshoj (Writing in the Majors), B. LeGendre (Writing Workshop), J. Martin (Writing Workshop), J. Pierpont (Writing Workshop), E. Shapiro (Writing Workshop).

The John S. Knight Institute helps to coordinate the teaching of writing in all undergraduate schools and colleges (the School of Industrial and Labor Relations; the School of Hotel Administration; and the colleges of Agriculture and Life Sciences; Architecture, Art, and Planning; Arts and Sciences; Engineering; and Human Ecology). The program administers writing seminars for first-year and upperclass students, discipline-based seminars in its Sophomore Seminars Program, tutorial writing classes, and seminars in the teaching of writing. More than 30 academic departments and programs participate in the program.

First-Year Writing Seminars

For first-year students the Institute offers the First-Year Writing Seminars—more than 125 different courses in the humanities, social sciences, expressive arts, and sciences. Through introductory work in a particular field of study, seminars help students write good English expository prose—prose that, at its best, is characterized by clarity, coherence, intellectual force, and stylistic control. All seminars pursue this common aim through small classes, with a maximum of 17 students, and adherence to a program-wide set of guidelines:

- Seminars require at least six—and at most nine—formal essays on new topics. (While these assignments should total about 30 pages, some of the 30-page total may include major drafts that receive commentary from the instructor and are later significantly revised.) Assignments form a logical sequence.
- At least three of the six to nine required essays are developed through several stages of revised drafts under the instructor's guidance. Guidance may include, in addition to written commentary on drafts, individual conferences, in-class group work, peer commentary, reading responses, journals, and so on.
- Ample classroom time is spent on work directly related to writing.
- Reading assignments in the course subject are kept under 75 pages per week to permit regular, concentrated work on writing.
- All students meet in at least two individual conferences with the instructor.

Offerings change from semester to semester. Each semester's First-Year Writing Seminars are described on the web at <http://fws.arts.cornell.edu>.

To ensure that students will enjoy the benefits of small writing classes, First-Year Writing Seminars are limited to no more than 17 students. Instead of pre-enrolling in their writing courses, students request placement in one of five writing seminars by filling out an electronic ballot in August for the fall semester and in November for the spring semester. Over 90 percent receive one of their top three choices. After placement by ballot, students may change their writing seminars via electronic add and drop. Writing seminars may be added only during the first two weeks of each semester.

The colleges and the schools served by the Institute accept First-Year Writing Seminars in fulfillment of their individual graduation requirements in categories referred to variously as "first-year writing," "oral and written expression," and the like. The Institute does not decide whether students may graduate: it makes courses available. Individual colleges and schools administer their own graduation requirements.

Currently, most undergraduate students are required to take two First-Year Writing Seminars. Architecture majors, however, need only one. Hotel students fulfill their requirement in one semester, through H ADM 165 in one semester plus one First-Year Writing Seminar in the other. Agriculture and Life Sciences students can take First-Year

Writing Seminars or choose from among a variety of other courses to fulfill their requirement.

All students who score 5 on the Princeton Advanced Placement Examination in English receive 3 credits. Such credits are awarded automatically; no application to the John S. Knight Institute or the Department of English is necessary. How these credits may be applied to first-year writing or other distribution requirements depends on the student's college and score. All students who score 5, except Architecture majors, may apply their 3 credits toward the writing requirements of their college. Of students who score 4, only Agriculture and Life Sciences students and Industrial and Labor Relations students may apply their 3 credits toward the writing requirements of their college. Students should always consult their college registrars to be certain that they understand their writing requirements.

Students who have already taken a First-Year Writing Seminar, or who score 4 or 5 on the Princeton AP exam, or 700 or better on the English Composition or CEEB tests, may enroll, space permitting, in the following upper-level First-Year Writing Seminars: ENGL 270, 271, or 272.

Although there are no exemptions from college writing requirements, some students may fulfill all or part of their college's writing requirement through transfer credits or writing-course substitutions.

For work done at other institutions to be accepted as equivalent to First-Year Writing Seminars, students should demonstrate that they have done a reasonably equivalent amount of writing in a formal course (e.g., it is not sufficient to write one 30-page term paper.) Students in the College of Engineering and the College of Arts and Sciences must file an "application for transfer evaluation" to request writing credit for such courses; students in other colleges should consult their college registrars.

In unusual circumstances, upper-level students may petition to use a Cornell writing course other than a First-Year Writing Seminar to satisfy part of their writing requirement. The John S. Knight Institute must approve all such petitions in advance.

For information about the requirements for First-Year Writing Seminars and descriptions of seminar offerings, see the John S. Knight Institute web site at http://arts.cornell.edu/knight_institute.

English 288–289: Expository Writing

Helps students write with more confidence and skill in all disciplines. Open to Cornell sophomores, juniors, and seniors, ENGL 288–289 courses explore themes shaped by a genre or use of expository writing, by the common concerns of several disciplines, or by an interdisciplinary topic intimately related to the written medium. Although English department instructors make up roughly half the staff, the Knight Institute's involvement enables the course to extend and diversify its offerings in separately defined, 16-member sections that appeal to the varied interests and needs of students in many areas of study. Students may choose among a variety of sections focusing on such themes as "War, Peace, Terror, and the Law," "Making the News," "The Reflective Essay," "Hollywood

Babylon," and "Rights, Democracy, and the Courts." All staff are selected because their special interests and their training and experience in First-Year Writing Seminars promise original course design and superior performance.

Sophomore Seminars

Since 2001, the John S. Knight Institute has been sponsoring a distinctive tier of electives through its Sophomore Seminars Program. The program involves a range of disciplines across the College of Arts and Sciences and the university. Building on an introductory exposure to discipline-specific approaches to writing gained in the First-Year Writing Seminars, the Sophomore Seminars provide interested students with an early mentoring experience in a small forum with leading university professors. Limited to 15 students per seminar. Purpose: to prepare sophomores for advanced work they will undertake in their chosen fields as juniors and seniors. Each Sophomore Seminar is presented in an interdisciplinary context and may serve as a gateway to a particular major. Seminars may also be used, with permission, to satisfy remaining First-Year Writing Seminar requirements for transfer students, sophomores, juniors, and seniors. By the end of the present academic year, the Knight Institute will have sponsored the following 62 seminars from 32 disciplines:

Knight Institute Sophomore Seminars

2001–2007

AAS 210*	South Asian Diasporic Locations
AAS 211*	Race and the American City: Reading New York and San Francisco
AEM 200*	Contemporary Controversies in the Global Economy
AN SC 204*	Domestic Animal Issues
ANTHR 205	The Anthropology of Sport
ANTHR 211*	Nature and Culture
ART 372*	Contemporary Art: Making and Looking
ART H 209	The Immigrant Imagination
ASIAN 201*	Buddhist Felicities
ASTRO 233	From Planets to Galaxies: The Origin of Cosmic Structures
BIOEE 467*	Why Is Evolutionary Biology So Controversial?
CLASS 244*	Psyche, Ego, and Self
COM L 215*	Comparative American Literatures
COM L 225*	Poetry and Poetics of Difference
COM L 227*	Multilingualism
CRP 395	Separate Societies: Poverty and Inequality in U.S. Cities
CSS 200*	Soils and Civilizations
DANCE 204*	Movement in Time and Space
ENGL 204*	Introduction to American Literatures: Narrating the Nation
ENGL 209*	Introduction to Cultural Studies
ENGL 220*	The Idea of the Pet in Literature
ENGL 221*	Imagining the Holocaust
ENGL 244*	Studies in Irish Culture

- ENGL 252* Late 20th-Century Women Writers and Visual Culture
- ENGL 297* Sustainable Literature
- FD SC 230* Functional Foods: Where Food Science and Nutrition Meet
- GOVT 202* Honor and Obligation in Conflict
- GOVT 215* Gender, Nationalism, and War
- GOVT 226* Empires
- GOVT 227 The Atomic Age
- GOVT 261 Feminist Theory/State Theory
- HD 201* Fatherhood and Family Policy
- HIST 207* The Occidental Tourist: Travel Writing and Orientalism in Southeast Asia
- HIST 211* Black Religious Traditions: Sacred and Secular
- HIST 214 Crusade, Heresy, and Inquisition in the Medieval Mediterranean
- HIST 225* U.S.-Mexico Border: History, Culture, and Representation
- HIST 232* Eyewitness to War in the Ancient World
- HIST 241* Riot and Revolution in 19th-Century Africa
- HIST 243* The History of Things
- HORT 215* Nonfiction Adventure Writing: Reclaiming the Scientist's Voice
- ITALL 250* The Uses of Learning
- ITALL 255 The Italian Western and Its American Lineage
- LA 215 Engaging Places
- LING 212* Language and Culture
- MUSIC 270* Music in American Cultures
- MUSIC 300* Proseminar in Musicology
- NES 237* Ninth-Century Baghdad and Its "Bad" Boys (and Girls)
- NES 265 Law, Society, and Culture in the Middle East
- NES 293 Middle Eastern Cinema
- NES 296* Jesus in History, Tradition, and the Cultural Imagination
- PHIL 216* Self, Ego, Psyche
- PSYCH 231 Topics in Cognitive Science: Mind and Reality in Science Fiction
- RELST 253* Black Religious Traditions: Sacred and Secular
- S&TS 212* Sound Studies
- SOC 221* Race/Class/Gender: Research in Progress
- SOC 327 Toleration and Fundamentalism
- SOC 357 Schooling, Racial Inequality, and Public Policy in America
- SPANL 230* Viewing Modern Barcelona
- SPANL 255* *Maladies of the Soul: Don Quixote*
- THETR 202* Film Style and Cinema Experience: Fritz Lang and Martin Scorsese
- THETR 203* Shakespeare in (Con)text

*Not offered 2006-2007.

Writing in the Majors

Spanning the humanities, social sciences, and sciences, the Knight Institute's upper-level, Writing in the Majors courses do not satisfy formal writing requirements, and faculty participation is entirely voluntary. While all Writing in the Majors courses include extensive writing, usually with guided revision, they also emphasize other forms of active, interactive learning essential to scholarship and careers in the disciplines. Writing in the Majors initiatives have included individual and collaborative research projects, collaborative writing, oral presentations, group oral exams, field studies, authentic student-designed laboratory experiments, debates, analytical and critical reading exercises, topical symposia, conversation groups, student-led discussions, poster sessions, and many kinds of informal writing, including online exchanges. Varying radically in design and size, from enrollments of fewer than 10 students to more than 300, Writing in the Majors courses over the past 18 years have involved collaboration with 150 faculty members and more than 250 graduate teaching assistants to enrich learning in 75 upper-level courses offered in 24 departments.

WRIT 701(7101) Writing in the Majors Seminar

Fall and spring. 1 credit. S-U grades only. Teaching assistants assigned to Writing in the Majors projects enroll in a six-week course on teaching strategies in advanced instruction.

Teaching Writing

Each summer and fall, the institute offers instruction in the teaching of writing to new staff members in the First-Year Writing Seminars and other interested instructors. Teaching Writing, offered in the summer or fall, is primarily a course for graduate students. The program also sponsors a summer apprenticeship program for a limited number of graduate students, and a summer seminar for faculty members interested in the teaching of writing.

WRIT 700(7100) Teaching Writing

Summer and fall. 1 credit. S-U grades only. Introduces new instructors of Cornell's First-Year Writing Seminars to the challenges of teaching writing in courses that both introduce students to particular fields of study and develop the sophisticated writing skills students will need throughout their undergraduate careers and beyond. An overview of methodologies involved in the teaching of writing within a disciplinary context is provided by readings representing a range of pedagogical theories and practices, seminar discussions, and presentations of faculty, visiting scholars in the field, and experienced TAs. Participants in the course prepare written assignments designed to prepare them for the actual work of their First-Year Writing Seminars. In addition, written critiques and explanatory rationales of those assignments provide an opportunity for reflection on the methods chosen and on the principles underlying them.

Writing Workshop

The John S. Knight Institute offers "An Introduction to Writing in the University" for first-year students (or transfer students needing writing credit) through the Writing Workshop. This course is designed for students who have had little training in

composition or who have serious difficulty with writing assignments.

WRIT 137 and 138 are graded S-U only, and students receiving a grade of S are granted credit toward their college writing requirements. Students who think this course might be appropriate including non-native speakers of English scoring less than 600 on the Test of English as a Foreign Language (TOEFL) should attend the assessment sessions offered by the Writing Workshop during orientation week each fall. The workshop also offers a Walk-In Service (see below) to help students work on writing assignments. The director is Joe Martin, senior lecturer in the Writing Workshop. The workshop offices are in 174 Rockefeller Hall, 255-6349.

The Writing Walk-In Service

Through the Writing Walk-In Service, the Writing Workshop offers tutoring assistance in writing to any student who needs help with a writing project. The Writing Walk-In Service has tutors available during the academic year in 174 Rockefeller Hall and North and West Campus residential areas. The director is Mary Gilliland. For information, contact the Writing Workshop, 174 Rockefeller Hall, 255-6349.

WRIT 137-138, 134(1137-1138, 1134) An Introduction to Writing in the University

137, fall; 138, spring; 134, summer. 3 credits each semester. Limited to 12 students per sec in fall and spring, 6 in summer. Prerequisite: permission of instructor. S-U grades only.

Writing seminar designed for students who need more focused attention to master the expectations of academic writing. Emphasizes the analytic and argumentative writing and critical reading essential for university-level work. With small classes and weekly student/teacher conferences, each section is shaped to respond to the needs of students in that particular class.

WRIT 139(1139) Special Topics in Writing

Fall and spring. 3 credits. Cannot fulfill writing or distribution requirements. Prerequisite: undergraduate standing; permission of instructor. S-U grades only. These courses allow students the opportunity to resolve significant writing challenges that have interfered with their academic progress. Students must have ongoing writing projects on which to work. Instruction is in weekly tutorials. Interested students should go to 174 Rockefeller for more information.

WRIT 702(7102) Graduate Writing Workshop

Fall and spring. 3 credits. Limited to 10 students per sec. Prerequisites: graduate standing; permission of instructor. S-U grades only. Gives graduate students the opportunity to resolve significant writing challenges that have interfered with their academic progress. Students must have ongoing writing projects to work on. Instruction is in weekly tutorials. Interested students should go to 174 Rockefeller Hall for further information.

WRIT 703(7103) Work in Progress

Fall and spring. 3 credits. Limited to 10 students per sec. Prerequisite: graduate standing and permission of instructor. S-U grades only.

Writing seminar for graduate students who have substantial work in progress, such as professional articles, theses, or dissertations. In the first two weeks students discuss rhetorical and stylistic features of scholarly writing and methods of composing and revising, with relevant readings. Remaining weeks emphasize exchange and discussion of drafts, supplemented by individual conferences. The course goal is the improvement and completion of student writing projects.

KHMER (CAMBODIAN)

See "Department of Asian Studies."

KOREAN

See "Department of Asian Studies."

LATIN AMERICAN STUDIES PROGRAM

190 Uris Hall

John S. Henderson, Anthropology, Director, Latin American Studies Program; Vilma Santiago-Irizarry, Anthropology, LASP director of graduate studies; Lourdes Benería, City and Regional Planning; Robert Blake, Animal Science; David Block, Ibero-American Bibliographer, Bruno Bosteels, Romance Studies; Debra Ann Castillo, Romance Studies, director of undergraduate studies; Maria Lorena Cook, School of Industrial and Labor Relations; Raymond Craib, History; David Cruz de Jesus, Romance Studies; Eleanor Dozier, Romance Studies; Maria Fernandez, History of Art; Gary Fields, International Labor Relations and Economics; Maria Antonia Garcés, Romance Studies; Maria Cristina García, History; William W. Goldsmith, City and Regional Planning; Karen Graubart, History; Jere D. Haas, Anthropology, Nutritional Science; Jean-Pierre Habicht, Nutritional Science; Zulma Iguina, Romance Studies; Steven Jackson, Government; Teresa Jordan, Geological Science; Steven Kyle, Agricultural Economics; David R. Lee, Applied Economics and Management; Barbara Lynch, City and Regional Planning; Luis Morató, Romance Studies; Ben Olguin, English; Jura Oliveira, Romance Studies; Kathleen O'Neill, Government; Edmundo Paz Soldán, Romance Studies; Gretel Peltó, Nutritional Sciences; José Piedra, Romance Studies; Simone Pinet, Romance Studies; Alison Power, Department of Ecology and Evolutionary Biology; Eloy Rodríguez, Plant Biology; Jeannine Routier-Pucci, Romance Studies; Elvira Sánchez-Blake, Romance Studies; Roberto Sierra, Music; Jose M. Rodríguez-García, Romance Studies; María Stycos, Romance Studies. Emeritus: Thomas Davis, Economics; Matthew Drosdoff, Agronomy; Donald Freebairn, Agricultural Economics; John Murra, Anthropology; Thomas Poleman, Agricultural Economics; Don Sola, Romance Studies; Joseph M. Stycos, Development Sociology; David Thurston, Plant Pathology; Arnold Van Wambeke, Agronomy; Lawrence Williams, School of Industrial and Labor Relations; Frank Young, Developmental Sociology.

Cornell's Latin American Studies Program (LASP) was founded in 1961 with funds from the Mario Einaudi Center for International

Studies and a major grant from the Ford Foundation. The National Defense Education Act (NDEA) Language and Area Center established LASP in 1966 as one of the nation's premier Latin American centers. Today, the Latin American Studies Program provides a focus for all activities oriented toward Latin America on the Cornell campus. Latin Americanists are active in most of Cornell's colleges and schools, with such diverse strengths as the languages and literatures of the area, agricultural sciences, city and regional planning, anthropology, history, economics and the other social sciences. It is the purpose of the program to stimulate teaching by establishing contacts with Latin American universities and institutions, supporting research through grants to faculty members and graduate students, and sponsoring visiting scholars from Latin America. LASP offers a concentration in Latin American Studies for undergraduate students and a graduate minor for graduate students.

Undergraduate Concentration

To complete an undergraduate concentration in Latin American Studies, students must earn a minimum of 15 credits in Latin American Studies. Latin American content courses not on the list may be approved by petition only. To satisfy the requirements of the concentration, undergraduates must select courses from at least three fields and must include at least one course at the advanced level. Language Instruction below the 300 level may not be counted toward the credit requirement. However, language facility in Spanish, Portuguese, or Quechua must be demonstrated by successfully completing SPANR 219, PORT 219, QUECH 219, or the equivalent.

Courses

LAT A 103(1030) Introduction to World Music I: The African Diaspora (also MUSIC 103(1030), LSP 100(1301))

Spring. S. Pond.

For description, see MUSIC 103.

LAT A 195(1950) Colonial Latin America (also HIST 195(1950))

Fall and spring. K. Graubart.

For description, see HIST 195.

LAT A 131(1310) Introduction to Comparative Government and Politics (also GOVT 131(1310))

Spring. 3 credits. K. Roberts.

For description, see GOVT 131.

LAT A 196(1961) Modern Latin America (also HIST 196(1960))

Spring. M. Roldan.

For description, see HIST 196.

LAT A 215(2150) The Tradition of Rupture (also SPANL 215(2150))

Fall. J. Rodríguez-García and staff.

For description, see SPANL 215.

[LAT A 216(2161) Gender and Colonization in Latin America (also HIST 216(2160))

Spring. 4 credits. K. Graubart.]

LAT A 217(2170) Readings—Medieval/Early Mod Sp (also SPANL 217(2170))

Fall. M. A. Garcés.

For description, see SPANL 217.

LAT A 220(2200) Perspectives on Latin America (also SPANL 220(2200), HIST 251(2511))

Spring. E. Paz-Soldan and Director, Latin American Studies Program.

For description, see SPANL 220.

LAT A 247(2470) Spanish through Media and Culture (also SPANL 247(2470))

Fall and spring. Conducted in Spanish.

E. Sánchez-Blake.

For description, see SPANL 247.

LAT A 261(2610) Bolívar in Latin America (also SPANL 261(2610))

Fall. J. A. Hernandez.

For description, see SPANL 261.

LAT A 280(2800) Perspectives on Brazil (also PORT 280(2800))

Fall. L. Horne.

For description, see PORT 280.

LAT A 301(3010) Hispanic Theater Production (also SPANL 301(3010))

Fall. D. Castillo.

For description, see SPANL 301.

LAT A 306(3060) Modern Mexico (also HIST 306(3060))

Spring. 4 credits. R. Craib.

For description, see HIST 306.

LAT A 312(3211) Forging Nations (also HIST 312(3120))

Fall. M. Roldan.

For description, see HIST 312.

LAT A 329(3290) Comparative Politics of Latin America (also GOVT 329(3293))

Fall. 4 credits. K. Roberts.

For description, see GOVT 329.

ILRIC 339(3390) Political Economy of Mexico (also ILRIC 339(3390))

Spring. M. Cook.

For description, see ILRIC 339.

LAT A 368(3680) Modern and Contemporary Latin American Art (also ART H 3680(3550), LSP(3680))

Spring. M. Fernandez.

For description, see ART H 368.

LAT A 371(3710) Cuba: Search for Development Alternatives (also CRP 371(3710))

Fall. B. Lynch.

For description, see CRP 371.

LAT A 376(3760) Latin American Cities (also CRP 376(3760))

Fall. B. Lynch.

For description, see CRP 376.

LAT A 405(4050) US-Cuba Relations (also HIST 405(4050))

Fall. M. C. Garcia.

For description, see HIST 405.

LAT 415(4150) Post-National Gastroidentities (also S HUM 415, ANTHR 416)

Fall. S. Ayora-Diaz.

For description, see S HUM 415.

LAT A 424(4241) Art and Politics in 20th-Century Latin America (also HIST 424(4240))

Spring. M. Roldan.

For description, see HIST 424.

LAT A 430(4300) 20th-Century Poetry (also SPANL 430(4300))

Fall. J. M. Rodríguez-García.

LAT A 433(4320) 19th Century Hispanic Caribbean (also SPANL 433[4330])

Fall. J. A. Hernandez.

For description, see SPANL 433.

LAT A 452(4520) Latin America: Politics and Practice of Culture (also ANTHR 452[4520])

Fall. C. Howe.

For description, see ANTHR 452.

LAT A 474(4740) Urban Transformations in the Global South (also CRP 474[4740])

Spring. W. W. Goldsmith.

For description, see CRP 474.

LAT A 480 The Return of the Real (also PORT 480[4800])

Fall. L. Horne.

For description, see PORT 480.

LAT A 491 Latin American Literature/Mass Media (also SPANL 491[4910])

Fall. E. Paz-Soldan.

For description, see SPANL 491.

LAT A 519(5190) Urban Theory and Spatial Development (also CRP 519[5190])

Spring. W. W. Goldsmith.

For description, see CRP 519.

LAT A 600(6000) Contemporary Issues in Latin America

Fall and spring. Director, Latin American Studies Program.

An exploration of critical topics in the Anthropology, Art, Economics, History, Literature, Political Science, and Sociology of Latin America. Course features guest speakers from Cornell and other institutions.

LAT A 602 Agriculture in the Developing Nations II (also IARD 602[6020])

Spring. R. Blake.

For description, see IARD 6020.

LAT A 605(6050) US-Cuba Relations (also AM ST/LSP/HIST 405/605[4050/6050])

Fall. 4 credits. M. C. Garcia.

LAT A 612(6120) Colonial Latin America (also HIST 612[6120]) LAT A 633(6330) 19th-Century Hispanic Caribbean (also SPANL 633[6330])

Fall. J. A. Hernandez.

For description, see SPANL 633.

LAT A 635 Labor Markets and Income Distribution in Developing Countries (also ILRIC 635[6350])

Spring. G. Fields.

For description, see ILRIC 635.

LAT A 612(6120) Colonial Latin America (also HIST 612[6120])

Fall. K. Graubart.

For description, see HIST 612.

LAT A 650(6500) Literature of the Conquest (also SPANL 650[6500])

Spring. M. A. Garcés.

For description, see SPANL 650.

LAT A 674(6740) Transformations in the Global South (also CRP 674[6740])

Spring. W. W. Goldsmith.

For description, see CRP 674.

LAT A 676(6760) Latin American Cities (also CRP 676[6760])

Fall. B. Lynch.

For description, see CRP 676.

SPANL 690 Hispanic Feminisms

Spring. D. Castillo.

For description, see SPANL 690.

ILRIC 739(7390) Political Economy of Mexico (also ILRIC 739[7390])

Spring. M. Cook.

For description, see ILRIC 739.

LATINO STUDIES PROGRAM

434 Rockefeller Hall

Undergraduate Concentration

The Latino Studies Program offers an interdisciplinary undergraduate concentration in Latino studies, with courses mostly drawn from history, sociology, anthropology, literature, and language, but the program also cross-lists courses from other colleges.

- To complete the concentration, students must take at least five courses (a minimum of 15 credits) in Latino Studies, including Latinos in the United States (D SOC 265, LSP 201, and SOC 265), which is offered each spring semester.
- Students are required to include at least three courses from Groups I and II (one from each group, and another from either group). Of the three courses, two must be at the 300 or 400 level.

One elective course (see list below) can count toward the concentration. Courses must be completed with a letter grade of C or above. Independent studies and first-year writing seminars do not count toward concentration requirements. The list varies each semester in accordance with faculty schedules and visiting appointments.

Group I: Humanities

- LSP 225 The United States-Mexico Border: History, Culture, Representation (also AM ST/HIST 225)
- LSP 240 Survey in U.S. Latina/o Literature (also AM ST/ENGL 240)
- LSP 246 Contemporary Narratives by Latina Writers (also FGSS/SPANL 246)
- LSP 248 Poetry of the Latina/o Experience (also SPANL 248)
- LSP 260 Latinos in the United States: Colonial Period to 1898 (also AM ST 259, HIST 260)
- LSP 261 Latinos in the United States: 1898 to the Present (also AM ST/HIST 261)
- LSP 264 Exploring Latino/a Identity (also ENGL 264)
- LSP 303 American Dreams (also SPANL 303)
- LSP 398 Latina/o Popular Culture (also AM ST 396, ENGL 398)
- LSP 413 Classics of Latina/o Literature (also SPANL 413)
- LSP 462 Senior Seminar in Latina/o Studies: Chicana Feminism in a Globalizing World (also ENGL 462, AM ST 452)
- LSP 693 Gender, Globalization, and Latina/o Literature (also ENGL 693)

Group II: Social Sciences

- LSP 201 Latinos in the United States (also DSOC/SOC 265)

- LSP 220 Sociology of Health and Ethnic Minorities (also D SOC 220)
- LSP 221 Anthropological Representation: Ethnographies of Latino Culture (also AM ST/ANTHR 221)
- LSP 230 Latino Communities (also D SOC 230, AM ST 231)
- LSP 355 Latinos, Law, and Identity (also AM ST 357, D SOC 355)
- LSP 375 Comparative U.S. Racial and Ethnic Relations (also AM ST/D SOC 375)
- LSP 431/631 Farmworkers (also HIST 431/631)
- LSP 451 Multicultural Issues in Education (also EDUC 451)
- LSP 610 Political Identity: Race, Ethnicity, and Nationalism (also GOVT 610)
- LSP 624 Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR 624, LAW 723)
- LSP 660 Language, Ideologies and Practices (also ANTHR 660)

Electives:

- LSP 100 Introduction to World Music I: Africa and the Americas (also MUSIC 103)
- LSP 101 Research Strategies in Latino Studies
- LSP 111 Introduction to American Studies: New Approaches to Understanding American Diversity, the 20th Century (also AM ST 110, HIST 161)
- LSP 202 Spanish for English-Spanish Bilinguals (also SPANR 200)
- LSP 241 Immigration and Ethnicity in 20th-Century United States (also HIST 240, AM ST 239)
- LSP 311 Social Movements (also AIS/D SOC 311)
- LSP 313 Spanish Writing Workshop for Advanced English/Spanish Bilinguals (also SPANR 313)
- LSP 319 Racial and Ethnic Politics in the United States (also GOVT 319, AM ST 313)
- LSP 368 Modern and Contemporary Latin American Art (also ART H 368)
- LSP 377 The United States (also ANTHR/AM ST 377)
- LSP 386 Cinema and Social Change (also FILM 386)
- LSP 405/605 U.S.-Cuba Relations (also HIST 405/605, LAT A 405/605)

ART 214 Art and the Multicultural Experience

Other elective courses will be determined each semester.

Graduate Minor

Students wishing to complete a graduate minor in Latino studies need to formally register with the Latino Studies Program office, take an upper-level seminar (400/600) in Latino Studies and work intensively with a faculty member outside of their major field. Over the course of their study they will be expected to take two other Latino studies graduate or advanced undergraduate courses outside of their major field. In lieu of available courses, the student and his or her minor field advisor may design a special project that culminates in a paper given at a conference

or presented for publication. Each special project requires the approval of the director of graduate studies for the minor field. Upon completion of the minor, students receive a certificate from the program. Students wishing to pursue the graduate minor field in Latino studies must file an application at the Latino Studies Program, 434 Rockefeller Hall.

Library

The Latino Studies Program library in 432 Rockefeller Hall serves Cornell students, faculty, staff, and the wider local community. The library maintains print and media material pertinent to U.S. Latino issues including an extensive collection of books, research material, archives, and films. The library and conference room also provide meeting space for more than 25 Latino student organizations.

Courses

LSP 100(1301) Introduction to World Music: Africa and the Americas (also MUSIC 103[1301], LAT A 100[1301])
Spring. 3 credits. 1-hour disc. S. Pond.
For description, see MUSIC 103.

LSP 101(1101) Research Strategies
Spring. 1 credit. I. Martinez.
The digital revolution has made an enormous amount of information available to research scholars, but discovering resources and using them effectively can be challenging. This course introduces students with research interests in Latino Studies to search strategies and methods for finding materials in various formats (e.g., digital, film, and print) using information databases such as the library catalog, print and electronic indexes, and the World Wide Web. Instructors provide equal time for lecture and hands-on learning. Topics include government documents, statistics, subject-specific online databases, social sciences, the humanities, and electronic citation management.

LSP 201(2010) Latinos in the United States (also SOC/D SOC 265[2650])
Spring. 4 credits, variable. H. Velez.
For description, see SOC 265.

LSP 202(2020) Spanish for English-Spanish Bilinguals (also SPANR 200[2000])
Fall. 3 credits. Staff.
For description, see SPANR 200.

LSP 220(2200) Sociology of Health and Ethnic Minorities (also D SOC 220[2200])
Fall. 3 credits. P. Parra.
Discusses the health status of minorities in the United States. Specifically explores intragroup diversity such as migration, economic status, and the influence of culture and the environment on health status and access to health care. Although special attention is given to Latino populations, discussion encompasses other minorities who face similar problems.

[LSP 221(2721) Anthropological Representation: Ethnographies on Latino Culture (also AM ST/ANTHR 221[2721])
3 credits. Next offered 2007–2008.
V. Santiago-Irizarry.
For description, see ANTHR 221.]

LSP 230(2300) Latino Communities (also D SOC/AM ST 230[2300])
Spring. 3 credits. R. Mize.
For description, see D SOC 230.

LSP 246(2460) Contemporary Narratives by Latina Writers (also SPANL/FGSS 246[2460])
Fall. 3 credits. L. Carrillo.
For description, see SPANL 246.

LSP 248(2480) Poetry of the Latina/o Experience (also SPANL 248[2480])
Spring. 3 credits. L. Carrillo.
For description, see SPANL 248.

LSP 260(2600) Latinos in the United States: Colonial to 1898 (also HIST 260[2600], AM ST 259[2590])
Fall. 4 credits. M. C. Garcia.
For description, see HIST 260.

LSP 261(2610) Latinos in the United States: 1898 to the Present (also HIST/AM ST 261[2610])
Spring. 4 credits. M. C. Garcia.
For description, see HIST 261.

LSP 264(2640) The Private I and the Public Eye: Exploring Latino/a Identity in Poetry, Fiction, and Nonfiction (also ENGL 264[2640])
Fall. 4 credits. H. Viramontes.
For description, see ENGL 264.

[LSP 311(3110) Social Movements (also D SOC/AIS 311[3110])
3 credits. Next offered 2007–2008.
A. Gonzales.
For description, see D SOC 311.]

LSP 313(3130) Spanish Writing Workshop for Advanced English/Spanish Bilinguals (also SPANR 313[3130])
Fall. 1 credit. Prerequisite: permission of instructor. Students must be registered concurrently with LSP 202. N. Maldonado-Mendez.
For description, see SPANR 313.

LSP 319(3191) Racial and Ethnic Politics in the United States (also GOVT 319[3191], AM ST 313[3191])
Spring. 4 credits. M. Jones-Correa.
For description, see GOVT 319.

[LSP 355[3550] Latinos, Law, and Identity (also AM ST 357[3550], D SOC 355[3550])
3 credits. Next offered 2007–2008. R. Mize.
For description, see D SOC 355.]

LSP 368(3551) Modern and Contemporary Latino/Latin American Art (also ART H 368[3550], LAT A 368[3680])
Spring. 4 credits. M. Fernandez.
For description, see ART H 368.

LSP 375(3750) Comparative U.S. Racial and Ethnic Relations (also AM ST 375[3750], D SOC 375[3750])
Spring. 3 credits. R. Mize.
For description, see D SOC 375.

[LSP 377(3777) The United States (also ANTHR/AM ST 377[3777])
4 credits. Next offered 2007–2008.
V. Santiago-Irizarry.
For description, see ANTHR 377.]

LSP 398(3980) Latina/o Popular Culture (also ENGL 398[3980], AM ST 396[3981])
Spring. 4 credits. M. P. Brady.
For description, see ENGL 398.

LSP 405/605(4050/6050) U.S.-Cuba Relations (also AM ST/HIST/LAT A/ LSP 405/605[4050/6050])
Fall. 4 credits. M. C. Garcia.
For description, see HIST 405/605.

[LSP 413(4130) Classics of Latina/o Literature (also SPANL 413[4130])
4 credits. Next offered 2007–2008.
D. Castillo.]

LSP 420–421(4200–4210) Undergraduate Independent Study
Fall and spring. 2–4 credits. Prerequisite: permission of instructor.
Guided independent study.

LSP 431/631(4310/6310) Farmworkers (also CRP 395.72/679.72, HIST 431/631[4310/6310], ILRCB 402[4020])
Spring. 4 credits. Team taught. Faculty supervisor: R. Craib.

Interdisciplinary, team-taught course on the world of rural migrant labor. Weekly sessions taught by faculty members from across campus combine short lectures and discussion of assigned readings. Emphasis is on migrant farmworkers in the United States, mostly from the Caribbean and mainland Latin America, with an increasing focus as the semester progresses on farmworkers in central and upstate New York. Course requirements include analytical essays, a final paper, and participation in a service-learning project that are arranged in conjunction with the instructors.

LSP 620–621(6200–6210) Graduate Independent Study
Fall, spring. 2–4 credits. Prerequisite: permission of instructor.
Guided independent study.

LSP 624(6424) Ethnoracial Identity in Anthropology, Language, and Law (also ANTHR 624[6424], LAW 723)
Spring. 4 credits. V. Santiago-Irizarry.
For description, see ANTHR 624.

[LSP 660(6460) Latino Languages, Ideology, and Practice (also ANTHR 660[6440])
4 credits. Next offered 2008–2009.
V. Santiago-Irizarry.
For description, see ANTHR 660.]

LAW AND SOCIETY

Co-directors: M. Lynch (science and technology studies), 302 Rockefeller Hall, 255-7294, mel27@cornell.edu, and R. Lieberwitz (ILR), *287A Ives Hall, 255-3289, ril5@cornell.edu.

Advisers: G. Alexander (law), D. Dunning (psychology), G. Hay (law), B. Hendrix (government), P. Hyams (history), M. Katzenstein (government), R. Miller (philosophy), M. Moody-Adams (philosophy), M. B. Norton (history), R. Polenber (history), D. Powers (Near East studies), J. Rabkin (government), A. Riles (law), V. Santiago-Irizarry (anthropology), P. Sawyer (English), S. Shiffrin (law).

The law and society concentration provides an opportunity for focused study of the interaction between law and society from an interdisciplinary perspective predominantly rooted in the social sciences and humanities: anthropology, comparative literature, economics, government, history, philosophy, psychology, science and technology studies, and sociology.

The concentration is open to all undergraduates, but interested students with majors outside the College of Arts and Sciences are advised to check their college's

policy and procedures regarding external concentrations, including whether the concentration is included on their college transcript. All students completing the concentration will receive a certificate and can include their participation in the law and society concentration on a résumé or law school application.

To allow sufficient time for a coherent program of study to be developed and completed, students who have an interest in this concentration are required to register before the start of the second semester of their junior year. Under extenuating circumstances, late registrations may be accepted at the discretion of the directors, but only if the registrant has a plan already formulated for completing the concentration's requirements. Special late registration forms that include the student's plan outline are available in the Ethics and Public Life (EPL) office, 240 Goldwin Smith Hall.

The standard law and society registration form is available online at www.arts.cornell.edu/epl and in the EPL office. As part of the registration process, each student is assigned a law and society adviser who is available to provide guidance with course selection and help with other questions or concerns related to the student's participation in the concentration. The name and contact information of the assigned adviser are included in a welcome e-mail that is sent shortly after a student's registration form is received.

Four-Event Requirement

Many students find access to and participation in law and society events a particularly beneficial component of the concentration. Officially registered law and society students are notified of qualifying events (usually at least 10 per semester) and other information related to the concentration through an e-mail listserve and postings outside the Ethics and Public Life office. Attendance at a minimum of four events (tracked with sign-in sheets) is required between registration and graduation, but students seeking a broader perspective are encouraged to attend as many events as they can.

Four-Course Requirement

Law and society is an interdisciplinary concentration requiring students to successfully complete four courses (at least 12 credits) from the approved course list, earning a letter grade no lower than C- in each. Of the four qualifying courses, at least two must be outside the student's major, and no more than two can be in the same subject area. Cross-listed courses may be counted in any of the departments listed. Students who have a double major are permitted to select one major as the dominant and use applicable courses from the second major toward the four-course requirement. Appropriate courses taken before registering for the law and society concentration can be counted toward the four-course requirement. There are no required courses, but past students have found GOVT 313 and PSYCH 265 particularly relevant.

At the discretion of the law and society directors, permission may be granted to substitute an appropriate course that has been:

1. accepted from another educational institution toward the student's degree program (one course maximum)

2. taken as part of a semester abroad program
3. recently added to the Cornell curriculum

The best evidence of a course's appropriateness is the syllabus, which is often available online and can be submitted electronically to one of the directors for their determination. Petitions for course substitutions must be submitted before the student's final semester.

To facilitate tracking of courses taken and/or events attended, a printable student progress record can be accessed electronically or obtained as a preprinted form from the EPL office.

The law and society concentration is administered by the Ethics and Public Life (EPL) office. For more information, contact the EPL administrative assistant at 240 Goldwin Smith Hall, epi@cornell.edu, or 255-8515.

Approved Law and Society Courses

Arts and Sciences

- AM ST/ENGL 268(2680) Politics and Culture in the 1960s**
- AM ST/HIST/FGSS 273(2730) Women in American Society Past and Present**
- AM ST/GOVT 302(3021) Social Movements in American Politics**
- AM ST 310(3271)/GOVT 327(3271) Civil Liberties in the United States**
- AM ST 313(3181)/GOVT 318(3181)/LSP 319(3191) Racial and Ethnic Politics**
- AM ST 315(3141)/GOVT 314(3141) Prisons**
- AM ST 317(3180)/HIST 318(3180) American Constitutional Development**
- AM ST 319(3181)/GOVT 318(3181) US Congress**
- AM ST/HIST 324(3240) Varieties of American Dissent, 1880 to 1990**
- AM ST/GOVT 328(3281) U.S. Supreme Court**
- AM ST 344(3350)/HIST 335(3350) African American History**
- AM ST 357(3550)/D SOC 355(3550)/LSP 355(3550) Latinos, Law, and Identity**
- AM ST 376(3665)/GOVT 366(3685)/HIST 316(3160) American Political Thought from Madison to Malcolm X**
- AM ST/ANTHR/LSP 377(3777) The United States**
- AM ST 395(3970)/ENGL 397(3970) Policing and Prisons in American Culture**
- AM ST 423/GOVT/LSP 422(4221) Immigrants, Minorities, and Metropolitan Government**
- AM ST 430.5(4301)/HIST 448(4480)/LSP 430.5 The Rabinor Seminar**
- AM ST/HIST 440(4400) Undergraduate Seminar in Recent American History (Freedom of Speech, Censorship, Supreme Court)**

AM ST 501(4990)/GOVT 500(4998)/PAM 406(4060) Politics and Privacy: Theory, Research, and Practice

ANTHR 323(3423) Kinship and Social Organization

ANTHR 328(3428) Conflict, Dispute Resolution, and Law in Cultural Context

ANTHR/LSP/AM ST 377(3777) The United States

ANTHR/LSP 624(6424) Ethnoracial Identity in Anthropology, Language, and Law

AS&RC 231(2601) African-American Social Political Thought

AS&RC 420(4605) Public Policy and African-American Urban Community

B&SOC/S&TS 205(2051) Ethical Issues in Health and Medicine

B&SOC/S&TS 206(2061)/PHIL 246(2460) Ethics and the Environment

B&SOC/S&TS/NTRES 331(3311) Environmental Governance

B&SOC/S&TS 407(4071) Law, Science, and Public Values

B&SOC/S&TS 427(4271) The Politics of Environmental Protection in America

B&SOC/S&TS 446(4461) Biomedical Ethics

COM L/NES/JWST 256(2560)/RELST 213(2211) Introduction to the Qur'an

COM L/RELST 326(3260) Christianity and Judaism

COM L/RELST 328(3280) Literature of the Old Testament

COM L 428/RELST 427(4280) Biblical Seminar

ECON 335(3350) Public Finance: The Microeconomics of Government

ECON 336(3360) Public Finance: Resource Allocation and Fiscal Policy

ECON 404(4040) Economics and the Law

ECON 420(4200) Economics of Family Policy: Adults

ECON 421(4210) Economics of Family Policy: Children

ENGL/AM ST 268(2680) Politics and Culture in the 1960s

ENGL 397/AM ST 395(3970) Policing and Prisons in American Culture

ENGL 402(4020) Literature as Moral Inquiry

FGSS/D SOC 206(2060) Gender and Society

FGSS/HIST 273(2730) Women in American Society, Past and Present

FGSS/RELST/HIST 368 (3680) Marriage and Sexuality in Medieval Europe

FGSS 461(4610)/FGSS 762(7620)/GOVT 462(4625)/GOVT 762(7625) Sexuality and the Law

- GOVT 111(1111) Introduction to American Government and Politics
- GOVT/CRP/SOC 293(2930)/PHIL 193(1930) Inequality, Diversity, and Justice
- GOVT 294(2947)/PHIL 194(1940) Global Thinking
- GOVT/AM ST 302(3021) Social Movements in American Politics
- GOVT 313(3131) The Nature, Functions, and Limits of Law
- GOVT 314/AM ST 315(3141) Prisons
- GOVT 316(3161) The American Presidency
- GOVT 318(3181)/AM ST 319 U.S. Congress
- GOVT/LSP 319/AM ST 313(3191) Racial and Ethnic Politics in the United States
- GOVT 327/AM ST 310(3271) Civil Liberties in the United States
- GOVT 328(3281)/AM ST 328(3281) U.S. Supreme Court
- GOVT 341(3413)/SOC 341(3410) Modern European Society and Politics
- GOVT 362(3625)/PHIL 346(3460) Modern Political Philosophy
- GOVT 363(3633)/SOC 248(2480) Politics and Culture
- GOVT 364(3645) Politics of Nations Within
- GOVT 366/AM ST 376(3665)/HIST 316(3160) American Political Thought from Madison to Malcolm X
- GOVT 368(3685)/PHIL 347(3470) Global Justice
- GOVT 389(3898) International Law
- GOVT 393(3937) Introduction to Peace Studies
- GOVT 404(4041) American Political Development in the 20th Century
- GOVT/LSP 422/AM ST 423(4221) Immigrants, Minorities, and Metropolitan Government
- GOVT 428(4281) Government and Public Policy: An Introduction to Analysis and Criticism
- GOVT 453(4535)/S HUM 423 The Right of Prevention
- GOVT 462(4625)/762(7625)/FGSS 461(4610)/762(7620) Sexuality and the Law Seminar
- GOVT 465(4665)/PHIL 447(4470) Contemporary Political Philosophy
- GOVT 500(4998)/AM ST 501(4998)/PAM 406(4060) Politics and Policy: Theory, Research, and Practice
- HIST 202(2020) The Court, Crime, and the Constitution
- HIST/FGSS/AM ST 273(2730) Women in American Society, Past and Present
- HIST 316(3160)/AM ST 376(3665)/GOVT 366(3665) American Political thought from Madison to Malcolm X
- HIST 318/AM ST 317(3180) American Constitutional Development
- HIST/AM ST 324(3240) Varieties of American Dissent, 1880-1990
- HIST 335/AM ST 344(3350) African American History
- HIST/RELST/FGSS 368(3680) Marriage and Sexuality in Medieval Europe
- HIST 372/652/NES 351/651/RELST 350(3651) Law, Society, and Culture in the Middle East, 1200 to 1500
- HIST 431/631/LSP 431/631/LSP 431/CRP 395.72/679.72/ILRCB 402 Farmworkers
- HIST 436(4360) Conflict Resolution in Medieval Europe
- HIST/AM ST 440(4400) Undergraduate Tradition in Recent American History (Topic: freedom of speech, censorship, and the Supreme Court)
- HIST 448(4480)/AM ST/LSP 430.5(4301) The Rabinor Seminar
- HIST 453(4530)/NES/RELST 456(4657) Formation of Islamic Law
- HIST 459(4590)/659(6590) Radicals and Revolutionaries in Latin America
- HIST 472(4720)/NES 429(4929)/S HUM 428 Race in the Medieval Islamic World
- JWST/NES/RELST 223(2623) Introduction to the Bible I
- JWST/NES/RELST 229(2629) Introduction to the New Testament
- JWST/NES/RELST/COM L 256(2556) Introduction to the Quar'an
- JWST/NES 395(3895)/SOC 390(3900) Israeli Society
- LSP 431/631/HIST 431/631/LSP 431(4310)/CRP 395.72/679.72/ILRCB 402 Farmworkers
- LSP 319/GOVT 319/AM ST 313(3191) Racial and Ethnic Politics
- LSP 355/D SOC 355/AM ST 357(3550) Latinos, Law, and Identity
- LSP/AM ST/ANTHR 377(3777) The United States
- LSP/GOVT 422/AM ST 423(4221) Immigrants, Minorities, and Metropolitan Government
- LSP/AM ST 430.5/HIST 448(4480) The Rabinor Seminar
- LSP 431/631/HIST 431/631(4310)/LSP 431/CRP 395.72/679.72/ILRCB 402 Farmworkers
- LSP/ANTHR 624(6424)/LAW 723 Ethnoracial Identity in Anthropology, Language and Law
- NES/JWST/RELST 223(2623) Introduction to the Bible I
- NES/JWST/RELST 229 (2629) Introduction to the New Testament
- NES/COM L/JWST 256(2556)/RELST 213(2211) Introduction to the Quar'an
- NES/RELST 259(2559) Islam in Theory and Practice
- NES 357/RELST 356 Islamic Law and Society
- NES/JWST 395(3895)/SOC 390(3900) Israeli Society
- NES 429(4929)/S HUM 428/HIST 472(4720) Race in the Medieval Islamic World
- NES 457(4657)/RELST 457(4657)/HIST 453(4530) Formation of Islamic Law
- PHIL 145(1450) Contemporary Moral Issues
- PHIL 193(1930)/GOVT/CRP/SOC 293(2930) Inequality, Diversity, and Justice
- PHIL 194(1940)/GOVT 294(2947) Global Thinking
- PHIL 241(2410) Ethics
- PHIL 242(2420) Social and Political Philosophy
- PHIL 245(2450) Ethics and Health Care
- PHIL 246(2460)/S&TS/B&SOC 206(2061) Ethics and the Environment
- PHIL 247(2470) Ethics and Public Life
- PHIL 249(2490) Feminism and Philosophy
- PHIL 341(3410) Ethical Theory
- PHIL 342(3420) Law, Society, and Morality
- PHIL 344(3440) History of Ethics: Ancient and Medieval
- PHIL 345(3450) History of Ethics: Modern
- PHIL 346(3460)/GOVT 362(3625) Modern Political Philosophy
- PHIL 347(3470)/GOVT 368(3685) Global Justice
- PHIL 447(4470)/GOVT 465(4665) Contemporary Political Philosophy
- PHIL 448(4480) International Justice
- PSYCH 265(2650) Psychology and Law
- RELST 213(2211)/NES/COM L/JWST 256(2556) Introduction to the Quar'an
- RELST/NES/JWST 223(2623) Introduction to the Bible I
- RELST/NES/JWST 229(2629) Introduction to the New Testament
- RELST/NES 259(2559) Islam in Theory and Practice
- RELST/COM L 326(3260) Christianity and Judaism
- RELST/COM L 328(3280) Literature of the Old Testament
- RELST/HIST/FGSS 368(3680) Marriage and Sexuality in Medieval Europe
- RELST 427(4280)/COM L 428(4280) Biblical Seminar
- RELST/NES 457(4657)/HIST 453(4530) Formation of Islamic Law
- S HUM 423/GOVT 453(4535) The Right of Prevention
- S HUM 428/NES 429(4929)/HIST 472(4720) Race in the Medieval Islamic World

S&TS/B&SOC 205(2051) Ethical Issues In Health and Medicine

S&TS 206(2061)/PHIL 246(2460) Ethics and the Environment

S&TS/B&SOC 331(3311)/NTRES 331(3310) Environmental Governance

S&TS 354(3541)/SOC 352(3520) The Sociology of Contemporary Culture

S&TS/B&SOC 407(4071) Law, Science, and Public Values

S&TS 411(4111) Knowledge, Technology, and Property

S&TS/B&SOC 427(4271) The Politics of Environmental Protection in America

S&TS/B&SOC 446(4461) Biomedical Ethics

SOC 207(2070) Problems in Contemporary Society

SOC 208(2208) Social Inequality

SOC 246(2460) Drugs and Society

SOC 248(2480)/GOVT 363(3633) Politics and Culture

SOC/CRP 293(2930)/GOVT 293(2935)/PHIL 193(1930) Inequality, Diversity, and Justice

SOC 326(3260) Social Policy

SOC 341(3410)/GOVT 341(3413) Modern European Society and Politics

SOC 352(3520)/S&TS 354(3541) The Sociology of Contemporary Culture

SOC 357(3570) Schooling and Society

SOC 371(3710)/D SOC 370(3700) Comparative Issues in Social Stratification

SOC 375(3750)/D SOC 301(3010) Theories of Society

SOC 390(3900)/JWST/NES 395(3895) Israeli Society

College of Art, Architecture, and Planning

CRP/ SOC 293(2930)/GOVT 293(2935)/PHIL 193(1930) Inequality, Diversity, and Justice

CRP 380(3800) Environmental Politics

CRP 395.72/679.72/HIST 431(4310)/631/LSP 431(4310)/631/ILRCB 402 Farmworkers

CRP 444/544/NTRES 444(4440) Resource Management and Environmental Law

CRP 448(4480)/548(5480) Social Policy and Social Welfare

CRP 451(4510) Environmental Law

CRP 474(4740) Third World Urbanization

College of Human Ecology

HD 233(2330) Children and the Law

HD 456(4560) Families and Social Policy

PAM 204(2040) Applied Public Finance

PAM 230(2300) Introduction to Policy Analysis

PAM 334(3340) Corporations, Shareholders, and Policy

PAM 341(3410) Economics of Consumer Law and Protection

PAM 383(3830) Social Welfare as a Social Institution

PAM 392(3920) NY State Government Affairs

PAM 406(4060)/GOVT 500/AM ST 501(4998) Politics and Policy: Theory, Research, and Practice

PAM 473(4730) Social Policy

PAM 552(5520) Health Care Services: Consumer and Ethical Perspectives

College of Agriculture and Life Sciences

AEM 331(3310) Economics and Business Regulation

AEM 432(4320) Business and Government in the Global Marketplace

AIS/D SOC 311(3110) Social Movements

BIOGD 482(4820) Human Genetics and Society

COMM 428(4280) Communication Law

COMM 494(4940) Special Topics: Copyright in the Digital Age

D SOC/SOC 200(2000) Social Problems

D SOC/FGSS 206(2060) Gender and Society

D SOC 301(3010)/SOC 375(3750) Theories of Society

D SOC/AIS 311(3110) Social Movements

D SOC/LSP 355/AM ST 357(3550) Latinos, Law, and Identity

D SOC 370(3700)/SOC 371(3710) Comparative Issues in Social Stratification

EDUC 271(2710) Social and Political Context for American Education

NTRES 306(3060) Coastal and Oceanic Law and Policy

NTRES 331(3310)/S&TS/B&SOC 331(3311) Environmental Governance

NTRES 444(4440)/CRP 444(4440)/544 Resources Management and Environmental Law

School of Industrial and Labor Relations

ILRCB 201(2010) Labor and Employment Law

ILRCB 402/HIST 431(4310)/631/LSP 431(4310)/631/CRP 395.72/679.72 Farmworkers

ILRCB 488(4880) Liberty and Justice for All

ILRCB 607(6070) Values in Law, Economics, and Industrial Relations

ILRCB 608(6080) Special Topics: Sex Discrimination and the Law

ILRCB 681(6810) International Labor Law

ILRCB 684(6840) Employment Discrimination and the Law

ILRCB 689(6890) Constitutional Aspects of Labor Law

Law

LAW 402(4021) Competition Law and Policy

LAW 405(4051) The Death Penalty in America

LAW 408(4081) Law, Science, and Sustainability

LAW 648 The History of Common Law in England and America

LAW 690(6901) Terrorism and the Law

LAW 723/ANTHR 624/LSP 624(6424) Ethnoracial Identity in Anthropology, Language, and Law

LESBIAN, BISEXUAL, AND GAY STUDIES

D. Bem, S. Bem, A. Berger, B. Correll, J. Culler, I. DeVault, J. Frank, J. E. Gainor, E. Hanson, C. Howie, I. V. Hull, M. Katzenstein, T. Loos, K. March, C. A. Martin, D. Mao, S. McConnell-Ginet, K. McCullough, T. Murray, M. B. Norton, J. Peraino, M. Raskolnikov, R. Savin-Williams, A. M. Smith, A. Villarejo, R. Weil

The field of Lesbian, Bisexual, & Gay Studies is devoted to the interdisciplinary study of the social construction of sexuality. LBG Studies is founded on the premise that the social organization of sexuality is best studied from the perspectives offered by those positions that have been excluded from established cultural norms.

In addition to offering a graduate minor, the field of LBG Studies offers an undergraduate concentration, which is administered under the auspices of Feminist, Gender, & Sexuality Studies (FGSS) and which consists of four courses from the list below. Although most of the courses in LBG studies (including those on men) generally fall under the aegis of FGSS and are hence crosslisted with it, not all of the courses in FGSS are sufficiently focused enough on the social construction of sexuality per se to be part of the LBG studies concentration. In order to qualify for the concentration, courses must devote a significant portion of their time to sexuality and to questioning the cultural and historical institution of exclusive heterosexuality. Students selecting their four courses from the LBG studies subset must identify their concentration as either LBG studies or FGSS; they cannot double-count their credits and thereby use the same courses for both concentrations.

Students interested in the LBG studies concentration should contact the Lesbian, Bisexual, & Gay Studies Office in 391 Uris Hall.

Courses

ANTHR 200(1420) Cultural Diversity and Contemporary Issues

Fall. 3 credits. M. Fiskesjo.
For description, see ANTHR 200.

ANTHR 321/621(3421/6421) Sex and Gender in Cross-Cultural Perspective (also FGSS 321/631[3210/6210])

Fall. 4 credits. K. March.

For description, see ANTHR 321.

ENGL 276(2760) Desire (also FGSS/COM L 276[2760], THETR 278[2780])

Spring. 4 credits. Letter grades only.

E. Hanson.

For description, see ENGL 276.

ENGL 355[3550] Decadence (also COM L/FGSS 355[3550])

Fall. 4 credits. E. Hanson.

For description, see ENGL 355.

[ENGL 478(4780) Intersections in Lesbian Fiction (also FGSS 477[4770], AM ST 468[4780])

4 credits. Next offered 2007–2008.

K. McCullough.]

FGSS 201(2010) Introduction to Feminist, Gender, and Sexuality Studies

Fall and spring. 4 credits. S. Martin and

K. McCullough.

For description, see FGSS 201.

FGSS 305(3050) Questioning Kin, Queering Family (also ANTHR 304[3104])

Fall. 3 credits. L. Ramberg.

For description, see FGSS 305.

FGSS 400(4000) Senior Seminar in Feminist, Gender, and Sexuality Studies

Fall. 4 credits. A. Villarejo.

For description, see FGSS 400.

FGSS 429(4290) The Sexual Politics of Religion (also RELST 424[4240])

Spring. 4 credits. L. Ramberg.

For description, see FGSS 429.

[FRLIT 442/642(4420/6420) Sex in French (also FGSS 432/632[4320/6320])

4 credits. C. Howie.]

FRLIT 449/649[4490/6490] Mystics and Mystique (also FGSS 449[4490])

Fall. 4 credits. C. Howie.

For description, see FRLIT 449/649.

FGSS 474(4740) Exoticism and Eroticism: Figures of the Other in 18th-Century Literature (also FRLIT 475)

Fall. 4 credits. A. Berger.

For description, see FRLIT 475.

FGSS 673(6730) Exoticism and Eroticism: Figures of the Other in 18th-Century Literature (also FRLIT 673[6730])

Fall. 4 credits. A. Berger.

For description, see FRLIT 475.

GOVT 462(4625) Sexuality and the Law (also FGSS 461[4610])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 462.

GOVT 762(7625) Sexuality and the Law (also FGSS 762[7620])

Spring. 4 credits. A. M. Smith.

For description, see GOVT 762.

HD 384(3840) Gender and Sexual Minorities (also FGSS 385[3850])

Fall. 3 credits. K. Cohen.

For description, see HD 384.

HIST 209(2090) Seminar in Early America (also AM ST/FGSS 209[2090])

Fall. 4 credits. M. B. Norton.

For description, see HIST 209.

[HIST 273(2730) Women in American Society, Past and Present (also FGSS 273[2730])

4 credits. Next offered 2007–2008.

M. B. Norton.]

HIST 368(3680) Marriage and Sexuality in Medieval Europe (also FGSS/RELST 368[3680])

Fall. 4 credits. P. Hyams.

For description, see HIST 368.

[HIST 416(4160) Gender and Sex in Southeast Asia (also ASIAN 416[4416], FGSS 416[4160])

Spring. 4 credits. Next offered 2008–2009.

T. Loos.]

LING 244(2244) Language and Gender (also FGSS 244[2440])

Spring. 4 credits. S. McConnell-Ginet.

For description, see LING 244.

MUSIC 695(7311) Topics in Music: Gender, Sexuality, and Glam Rock (also FGSS 695[6950])

Fall. 4 credits. J. Peraino.

For description, see MUSIC 695.

LINGUISTICS

<http://ling.cornell.edu>

J. Whitman, chair (209 Morrill Hall); M. Diesing, director of graduate studies (211 Morrill Hall); W. Harbert, director of undergraduate studies (210 Morrill Hall); D. Abusch, J. Bowers, W. Browne, A. Cohn, S. Hertz, J. Legate, S. McConnell-Ginet, A. Miller, A. Nussbaum, M. Rooth, C. Rosen, M. Wagner, M. Weiss, D. Zec.

Linguistics, the systematic study of human language, lies at the crossroads of the humanities and the social sciences, and much of its appeal derives from the special combination of intuition and rigor that the analysis of language demands. The interests of the members of the Department of Linguistics and linguistic colleagues in other departments span most of the major subfields of linguistics: phonetics and phonology, the study of speech sounds; syntax, the study of how words are combined; semantics, the study of meaning; historical linguistics, the study of language change over time; and sociolinguistics, the study of language's role in social and cultural interactions.

Studying linguistics is not a matter of studying many languages. Linguistics is a theoretical discipline with ties to such areas as cognitive psychology, philosophy, logic, computer science, and anthropology. Nonetheless, knowing particular languages (e.g., Spanish or Japanese) in some depth can enhance understanding of the general properties of human language. Not surprisingly, then, many students of linguistics owe their initial interest to a period of exposure to a foreign language, and those who come to linguistics by some other route find their knowledge about languages enriched and are often stimulated to embark on further foreign language study.

Students interested in learning more about linguistics and its relationship to other

disciplines in the humanities and social sciences are encouraged to take LING 101, a general overview, which is a prerequisite for most other courses in the field, or one of the first-year writing seminars offered in linguistics (on topics such as metaphor and the science of language). LING 101 and other introductory courses fulfill the social science distribution requirement. Most 100- and 200-level courses have no prerequisites and cover various topics in linguistics (e.g., LING 170 Introduction to Cognitive Science; LING 285 Linguistic Theory and Poetic Structure) or focus on the linguistics of a particular geographic region or historical development of particular languages (e.g., LING 217 History of the English Language to 1300; LING 241 Yiddish Linguistics). Some of these courses also fulfill the breadth requirements.

Talks and discussions about linguistics are offered through the Undergraduate Linguistics Forum and the Linguistics Colloquium (sponsored by the department and the Cornell Linguistic Circle). These meetings are open to the university public and anyone wishing to learn more about linguistics is most welcome to attend.

The Major

For questions regarding the linguistics major, contact Professor Wayne Harbert (210 Morrill Hall, 255–8441, weh2@cornell.edu).

The prerequisite for a major in linguistics is the completion of LING 101 and either LING 301, 302, 303, or 304. The major has its own language requirement, different from that of the College of Arts and Sciences, which should be completed as early as possible: majors must complete the equivalent of two semesters of college-level study of a language that is either non-European or non-Indo-European (language study undertaken to satisfy the college requirement can also count toward the major requirement if the language meets these conditions). With approval of the department's director of undergraduate studies, this requirement may be waived for students taking the cognitive studies concentration or a double major.

The other standard requirements for the linguistics major are as follows:

1. LING 301 Introduction to Phonetics, LING 302 Introduction to Phonology, LING 303 Introduction to Syntax, and LING 304 Introduction to Semantics and Pragmatics (one of which will already have been taken as a prerequisite to the major).
2. LING 314 Historical Linguistics.
3. Three additional courses in linguistics at the 300 or 400 level, of which two must be general linguistics.
4. A course at or beyond the 300 level in the structure of a language, or LING 400 Language Typology or LING 600 Field Methods.

Some substitutions to these standard requirements are possible after consultation with your advisor and approval by the DUS.

Honors

Applications for honors should be made during the junior year or by the start of fall semester of the senior year. For further information, please contact the DUS. Candidates for admission must have a 3.0

(B) average overall and should have a 3.2 average in linguistics courses. In addition to the regular requirements of the major, the candidate for honors will complete an honors thesis and take a final oral exam in defense of it. The thesis is usually written during the senior year but may be started in the second semester of the junior year when the student's program so warrants. The oral exam will be conducted by the honors committee, consisting of the thesis advisor and at least one other faculty member in linguistics. Members of other departments may serve as additional members if the topic makes this advisable. LING 493 and 494 may be taken in conjunction with thesis research and writing but are not required.

First-Year Writing Seminars

For descriptions, consult the John S. Knight brochure for times, instructors, and descriptions.

Courses

LING 101(1101) Introduction to Linguistics (KCM)

Fall or spring, 4 credits each semester. Fall, M. Wagner; spring, M. Disinger. Overview of the science of language, especially its theoretical underpinnings, methods, and major findings. Areas covered include: the relation between sound and meaning in human languages, social variation in language, language change over time, universals of language, and the mental representation of linguistic knowledge. Students are introduced to a wide variety of language phenomena, drawn not only from languages resembling English, but also from many that appear to be quite unlike English, such as those native to the Americas, Africa, Asia, Australia, and the South Pacific.

LING 109(1109) English Words: Histories and Mysteries (also CLASS 171[1609]) # (HA)

Spring, 3 credits. W. Harbert. Where do the words we use come from? This course examines the history and structure of the English vocabulary from its distant Indo-European roots to the latest in technical jargon and slang. Topics include formal and semantic change, taboo and euphemism, borrowing, new words from old, "learned" English loans from Greek and Latin, slang, and society.

LING 111(1111) American Sign Language I

Summer only, 4 credits. T. Galloway. Students with no previous background in American Sign Language (ASL) are introduced to the nature of a signed language and develop expressive and receptive skills in ASL. Basic grammar and vocabulary are covered, including explanations of the fundamental parts of a sign, proper use of fingerspelling, and the significance of nonmanual features. Instruction is supplemented with videotexts allowing students to begin to explore the visual literature of the Deaf community in the United States—stories, poems, and jokes that are unique to Deaf culture. Readings and class discussions acquaint students with the causes of deafness, the historical development of ASL and its linguistic status, and characteristics of deaf education both throughout history and in the present day.

LING 112(1112) American Sign Language II

Summer only, 4 credits. Prerequisite: LING 111 or permission of instructor. T. Galloway.

In this intermediate course, students continue to develop expressive and receptive fluency in ASL. Focus is on greater descriptive skill, developing intermediate-level narratives, and enhancing conversational ability. Advanced grammar and vocabulary is supplemented with further instruction in the linguistic structure of ASL. Readings, class discussions, and videotexts containing samples of the visual literature of the U.S. Deaf community continues students' investigation into American Deaf history and the shaping of modern Deaf culture.

[LING 131-132(1131-1132) Elementary Sanskrit (also CLASS 191-192[1331-1332], SANSK 131-132[1131-1132])

Next offered 2007-2008.]

LING 170(1170) Introduction to Cognitive Science (also COGST 101[1101], COM S 101[1710], PHIL 191[1910], PSYCH 102[1200]) (KCM)

For description, see COGST 101.

[LING 215/715(2215/7150) Psychology of Language (also COGST 215[2150], PSYCH 215[2150/7150]) (KCM)

For description, see PSYCH 215.]

LING 217(2217) History of the English Language to 1300 (also ENGL 217[2170]) # (HA)

Fall, 4 credits. W. Harbert.

Explores the development of the English language from its Indo-European beginnings through the period of Early Middle English. Topics include linguistic reconstruction, changes in sound, vocabulary and grammatical structure, external influences, and Old and Early Middle English language and literature. This course forms a sequence with LING 218, but the two may be taken independently.

[LING 218(2218) History of the English Language since 1300 (HA)

Spring, 4 credits. Next offered 2007-2008. W. Harbert.

Traces English from Chaucer to the present, including the development of standard English and dialects, and the rise of English as a world language.]

LING 236(2236) Introduction to Gaelic

Spring, 3 credits. W. Harbert.

Introduction to the Scottish Gaelic language, with some discussion of its history, structure, and current status.

[LING 238(2238) Introduction to Welsh

Fall, 3 credits. Next offered 2007-2008. W. Harbert.

Introduction to the Welsh language, with discussion of its history, structure, and current status, and a brief introduction to Welsh literature.]

[LING 241(2241) Yiddish Linguistics (SBA)

Fall, 3 credits. No previous knowledge of Yiddish required. Next offered 2007-2008. M. Disinger.

Yiddish language and culture, including structure and history of the Yiddish language, Yiddish in America, minority language issues, influence of Yiddish on present-day American English.]

LING 244(2244) Language and Gender (also FGSS 244[2440]) (SBA)

Spring, 4 credits. For nonmajors or majors. S. McConnell-Ginet.

Explores connections between language (use) and gender/sex systems, addressing such questions as the following: How do sex and gender affect the ways we speak, the ways we interpret and evaluate speech? How do sociocultural differences in women's and men's roles affect their language use, their relation to language change? What is meant by sexist language? How does conversation structure the social worlds of women and men? Readings draw from work in linguistics, anthropology, philosophy, psychology, literature, and general women's studies and feminist theory.

[LING 246/546(2246/5546) Minority Languages and Linguistics (SBA)

Fall, 4 credits. Graduate students register under LING 546. Next offered 2008-2009. W. Harbert.

Examines minority languages from linguistic, social, and political perspectives, including such issues as language death, language maintenance, bilingualism, language policy, and language rights.]

LING 251-252(2251-2252) Intermediate Sanskrit (also CLASS 291-292[2351-2352], SANSK 251-252[2251-2252]) @

Satisfies Option 1.

For description, see SANSK 251-252.

[LING 285/585(2285/5585) Linguistic Theory and Poetic Structure (LA)

Spring, 4 credits. Graduate students register under LING 585. Next offered 2007-2008. J. Bowers.

The aim of this course is to show how certain results of modern linguistics can usefully be applied to the analysis and interpretation of poetry.]

LING 301(3301) Introduction to Phonetics (KCM)

Fall, 4 credits. Prerequisite: LING 101 or permission of instructor. A. Cohn.

Introduction to the study of the physical properties of human speech sounds, including production, acoustics, and perception of speech. Provides in-depth exposure to the breadth of sounds found across human languages. Students achieve a high level of skill in phonetic transcription and some practice in reading spectrograms. An introduction to speech synthesis and automatic speech recognition is also provided. A small course project to discover the phonemes of an unknown language is undertaken.

LING 302(3302) Introduction to Phonology (KCM)

Spring, 4 credits. Prerequisite: LING 101 or permission of instructor. A. Cohn.

Introduction to phonology, which studies the patterning of speech sounds in human language. Emphasis is on formal devices, such as rules and representations, that capture the internal organization of speech sounds as well as their grouping into larger units, syllables, and feet.

LING 303(3303) Introduction to Syntax (KCM)

Fall, 4 credits. Prerequisite: LING 101 or permission of instructor. J. Legate.

Introduction to syntax, which studies how words are combined to form phrases and sentences. The course aims to give students

the ability to address questions regarding the syntactic properties that are shared by natural languages (as well as those that distinguish them) in a precise and informed way. Topics include those that lie at the heart of theoretical syntax: phrase structure, transformations, grammatical relations, and anaphora. Emphasis throughout the course is placed on forming and testing hypotheses.

LING 304(3304) Introduction to Semantics and Pragmatics (KCM)

Spring. 4 credits. Prerequisite: LING 303 or permission of instructor. D. Abusch.
Examines the two major components of sentence meaning: (1) how sentences mean what they mean and (2) how they can be used to communicate more than what they (literally) mean. Investigates precise ways of describing the possible interpretations of a sentence and the relationship between meaning and syntactic structure. Topics include the representation of lexical meaning, the meaning of quantifier phrases and analyses of scope ambiguities, and classic puzzles of reference. Also examines possible applications of the theory to linguistically interesting legal cases (torts and criminal law), slips of the tongue, acquisition studies, language disorders, and connections with the philosophy of language.

LING 308(3308) Readings in Celtic Languages

Fall or spring, depending on demand. 2 credits. Prerequisite: permission of instructor. S-U grades only. W. Harbert.
Reading/discussion groups in Welsh or Scottish Gaelic.

LING 314(3314) Introduction to Historical Linguistics # (HA)

Fall. 4 credits. Prerequisite: LING 301 or permission of instructor. M. Weiss.
Survey of the basic mechanisms of linguistic change, with examples from a variety of languages.

LING 315-316(3315-3316) Old Norse

315, fall; 316, spring. 4 credits each semester. A. Angantýsson.
Old Norse is a collective term for the earliest North Germanic literary languages: Old Icelandic, Old Norwegian, Old Danish, and Old Swedish. The richly documented Old Icelandic is the center of attention, and the purpose is twofold: the students gain knowledge of an ancient North Germanic language, important from a linguistic point of view, and gain access to the medieval Icelandic (and Scandinavian) literature. 315: The structure of Old Norse (Old Icelandic), phonology, and morphology, with reading of selections from the Prose-Edda, a 13th-century narrative based on the Eddaic poetry. 316: Extensive reading of Old Norse texts, among them selections from some of the major Icelandic family sagas: Njals saga, Grettis saga, and Egils saga, as well as the whole Hrafnkels saga.

[LING 321(3321) History of the Romance Languages # (HA)]

Fall. 4 credits. Prerequisites: LING 101 and qualification in any Romance language. Next offered 2007-2008. C. Rosen.
Covers popular Latin; Pan-Romance trends in phonology, morphology, syntax, and the lexicon; regional divergence; non-Latin influences; medieval diglossia and emergence of Romance standards.]

LING 332(3332) Philosophy of Language (also PHIL 332[3320])

For description, see PHIL 332.

LING 333(3333) Problems in Semantics (also PHIL/COGST 333[3330]) (KCM)

Spring. 4 credits. Prerequisite: logic or semantics course or permission of instructor. S. McConnell-Ginet.
Looks at problems in the semantic analysis of natural languages, critically examining work in linguistics and philosophy on particular topics of current interest. Topics for 2007 are presuppositions, events and argument structure, information structure, dynamic semantics.

LING 347(3347) Topics in the History of English (HA)

Fall. 4 credits. Prerequisite: LING 217, 314, course in Old or Middle English, or permission of instructor. W. Harbert.
Treats specific topics in the linguistic history of the English language, selected on the basis of the particular interests of the students and the instructor.

LING 390(3390) Independent Study in Linguistics

Fall or spring. 1-4 credits, variable. Prerequisite: LING 101 and permission of instructor. Staff.
Independent study of linguistics topics not covered in regular curriculum for undergrads.

LING 400(4400) Language Typology (KCM)

Spring. 4 credits. Prerequisite: LING 101. C. Rosen.

Studies a basic question of contemporary linguistics: in what ways do languages differ, and in what ways are they all alike? Efforts are made to formalize universals of syntax and to characterize the total repertory of constructions available to natural languages. Common morphological devices and their syntactic correlates are covered. Emphasis is on systems of case, agreement, and voice.

LING 401-402(4401-4402) Phonology I, II (KCM)

401, fall; 402, spring. 4 credits each semester. Prerequisites: for LING 401, LING 302 or equivalent; for LING 402, LING 401 or permission of instructor. Fall, D. Zec; spring, M. Wagner.
401 provides a basic introduction to phonological theory. The first half of the course focuses on basic principles of phonology, patterns of sounds, and their representations. In the second half, the nature of syllable structure and feature representations are explored. 402 provides further refinement of the issues investigated in 401, focusing in particular on metrical theory, lexical phonology, autosegmental phonology, and prosodic morphology.

LING 403-404(4403-4404) Syntax I, II (KCM)

403, fall; 404, spring. 4 credits each semester. Prerequisites: for LING 403, LING 303; for LING 404, LING 403 or permission of instructor. Fall, J. Legate; spring, M. Diesing.
403 is an advanced introduction to syntactic theory within the principles and parameters/minimalist frameworks. Topics include phrase structure, argument structure (unaccusative verbs, unergative verbs, double object constructions), principles of word order, and the binding theory. 404 is a continuation of 403, focusing on syntactic

dependencies, including the theory of control, an examination of locality constraints on movement, covert versus overt movement, and the syntax of quantification. The purpose of the course is to develop the background needed for independent syntactic research.

[LING 405(4405) Sociolinguistics (CA)]

Fall. 4 credits. Prerequisite: LING 101 or permission of instructor. Next offered 2008-2009. Staff.]

LING 409(4409) Structure of Italian (KCM)

Spring. 4 credits. Prerequisites: LING 101 and qualification in any Romance language. C. Rosen.

LING 411(4411) History of the Japanese Language (also ASIAN 411[4411], JAPAN 410[4410]) # @ (HA)

Fall. 4 credits. Prerequisite: reading knowledge of Japanese. J. Whitman.
Overview of the history of the Japanese language followed by intensive examination of issues of interest to the participants. Students should have a reading knowledge of Japanese.

[LING 412(4412) Linguistic Structure of Japanese (also ASIAN 412[4412]) (KCM)]

Spring. 4 credits. Prerequisites: JAPAN 102 or permission of instructor and LING 101. Next offered 2008-2009. J. Whitman.
Introduction to the linguistic study of Japanese, with an emphasis on morphology and syntax.]

[LING 413(4413) Applied Linguistics and Second Language Learning (KCM)]

Spring. 4 credits. Prerequisite: at least one course in applied linguistics, linguistics, psychology, anthropology, communication, cognitive studies, education, or literary analysis; or permission of instructor. Next offered 2007-2008. Staff.
An introduction to the field of applied linguistics with focus on different domains of language research as they bear on second language learning.]

LING 416(4416) Structure of the Arabic Language (also NES 416[4206]) @ (KCM)

Spring. 4 credits. M. Younes.
For description, see NES 416.

LING 417(4417) History of the Russian Language (also RUSSA 401[4401]) (HA)

Spring. 4 credits. Prerequisite: permission of instructor. W. Browne.
Phonological, morphological, and syntactic developments from Old Russian to modern Russian.

LING 419(4419) Phonetics I (KCM)

Fall. 4 credits. Prerequisite: LING 301 or permission of instructor. A. Miller.
Provides a basic introduction to the study of phonetics. Topics include anatomy and physiology of the speech production apparatus, transcription and production of some of the world's sounds, basic acoustics, computerized methods of speech analysis, acoustic characteristics of sounds, speech perception, speech synthesis, and stress and intonation.

LING 420(4420) Phonetics II (KCM)

Spring. 4 credits. Prerequisite: LING 419. A. Miller.
Continuation of Phonetics I, providing a more detailed survey of some areas in acoustic

and articulatory phonetics. Topics include feature theory, vocal tract acoustics, quantal theory, speaker normalization, theories of speech perception, coarticulation, theories of speech production, and prosody. In addition, a number of "hands-on" projects are part of the course.

LING 421(4421) Semantics I (KCM)

Spring. 4 credits. Prerequisite: LING 304. D. Abusch.

Introduces methods for theorizing about meaning within generative grammar. These techniques allow the creation of grammars that pair syntactic structures with meanings. Students look at several empirical areas in detail, among them complementation (combining heads with their arguments), modification, conjunction, definite descriptions, relative clauses, traces, bound pronouns, and quantification. An introduction to logical and mathematical concepts used in linguistic semantics (e.g., set theory, functions and their types, and the lambda notation for naming linguistic meanings) is included in the course.

LING 422(4422) Semantics II (KCM)

Fall. 4 credits. Prerequisite: LING 421 or permission of instructor. M. Rooth. Uses the techniques introduced in Semantics I to analyze linguistic phenomena, including quantifier scope, ellipsis, and referential pronouns. Temporal and possible worlds semantics are introduced and used in the analysis of modality, tense, and belief sentences. The phenomena of presupposition, indefinite descriptions, and anaphora are analyzed in a dynamic compositional framework that formalizes the idea that sentence meaning effects a change in an information state.

LING 423(4423) Morphology (KCM)

Spring. 4 credits. Prerequisite: LING 101 or permission of instructor. J. Legate. Addresses the basic issues in the study of words and their structures. Provides an introduction to different types of morphological structures with examples from a wide range of languages. Special emphasis is given to current theoretical approaches to morphological theory.

[LING 424(4424) Computational Linguistics (also COGST 424[4470], COM S 324[3420]) (MQR)]

Fall. 4 credits. Recommended: COM S 114. Next offered 2007-2008. M. Rooth. Introduces methods for doing a language computationally, including parsing and representation of syntactic analyses; computational morphology; probabilistic grammars; feature constraint formalisms for syntax; treebank methodology.]

LING 425(4425) Pragmatics (also PHIL 435[4350]) (KCM)

Fall. 4 credits. Prerequisite: LING 304 or PHIL 231, or permission of instructor. D. Abusch. Introduction to aspects of linguistic meaning that have to do with context and with the use of language. Topics include context change semantics and pragmatics, presupposition and accommodation, conversational implicature, speech acts, and the pragmatics of definite descriptions and quantifiers.

[LING 427(4427) Structure of Hungarian (also HUNGR 427[4427]) (KCM)]

Fall. 4 credits. Prerequisite: LING 101. Next offered 2008-2009. W. Browne.]

[LING 428/628(4428/6628) Connectionist Psycholinguistics (also COGST 428, PSYCH 428/628[4280/6280])]

Next offered 2007-2008. For description, see PSYCH 428.]

[LING 430(4430) Structure of Korean (also ASIAN/KOREA 430[4430]) (KCM)]

Spring. 4 credits. Prerequisite: KOREA 102 or linguistics course. No previous knowledge of Korean required. Next offered 2008-2009. J. Whitman. Intensive examination of the syntax and phonology of a non-Indo-European language with the objective of testing principles of current linguistic theory.]

[LING 431(4431) Structure of an African Language (KCM)]

Spring. 4 credits. Prerequisite: LING 101 or permission of instructor. Next offered 2007-2008. A. Miller. Survey of the grammar of an African language in light of current linguistic theory.]

LING 432(4432) Middle Korean (also KRLIT 432[4432]) @ # (LA)

Spring. 4 credits. Offered alternate years. Prerequisite: KOREA 202 or equivalent. J. Whitman. Introduction to the premodern Korean language. Focuses on the earliest *hangeul* texts of the 15th century, but also introduces materials written in Korean using Chinese characters before the 15th century, including *hyangga*. No previous background in linguistics is required, but students should have a command of written Korean of at least the third-year level.

[LING 433(4433) The Lesser-Known Romance Languages (also ROM S 433[4430]) (KCM)]

Spring. 4 credits. Prerequisites: LING 101 and qualification in any Romance language. Next offered 2007-2008. C. Rosen. Surveys several Romance languages/dialects, examining sound systems, grammars, and historical evolution from Latin. Readings represent both the modern languages and their earliest attested stages.]

LING 436(4436) Language Development (also COGST/PSYCH 436[4360], HD 337[3370]) (KCM)

For description, see COGST 436.

[LING 437(4437) Celtic Linguistic Structures (KCM)]

Spring. 4 credits. Prerequisite: LING 403. Next offered 2007-2008. W. Harbert. Treats selected topics in the syntax and morphosyntax of the modern Celtic languages.]

[LING 441(4441) Introduction to Germanic Linguistics (also GERST 441[4410]) (HA)]

Spring. 4 credits. Prerequisite: LING 101 or permission of instructor. Next offered 2008-2009. W. Harbert. Survey of major issues in historical Germanic linguistics.]

[LING 443[4443] Linguistic Structure of Russian (also RUSSA 403[4403]) (KCM)]

Fall. 4 credits. Prerequisites: reading knowledge of Russian. Next offered 2007-2008. W. Browne. Synchronic analysis of the structure of modern Russian.]

LING 450(4500) Lab Course: Language Development (also COGST 450[4500], HD 437[4370], PSYCH 437[4370])

Spring. 2 credits. For description, see COGST 450.

LING 455(4455) Greek Dialects (also CLASS 425[4455]) (KCM)

Fall. 4 credits. A. Nussbaum. For description, see CLASS 425.

[LING 456(4456) Archaic Latin (also CLASS 426[4456]) (LA)]

Next offered 2007-2008. For description, see CLASS 426.]

[LING 457(4457) Homeric Philology (also CLASS 427[4457]) # (LA)]

Next offered 2008-2009. For description, see CLASS 427.]

LING 459(4459) Mycenaean Greek (also CLASS 429[4459]) (LA)]

Spring. 4 credits. M. Weiss. For description, see CLASS 429.

[LING 460(4460) Sanskrit Comparative Grammar (also CLASS 490[4490]) (KCM)]

Fall. 4 credits. Prerequisite: reasonable familiarity with classical Sanskrit morphology. Next offered 2007-2008. A. Nussbaum. Survey of the historical phonology and morphology of Sanskrit in relation to the Indo-Iranian and Indo-European comparative evidence.]

LING 474(4474) Introduction to Natural Language Processing (also COGST 474, COM S 474[4740])

Fall. 4 credits. C. Cardie. For description, see COM S 474.

LING 493(4493) Honors Thesis Research

Fall. 4 credits. Staff. May be taken before or after LING 494, or may be taken independently.

LING 494(4494) Honors Thesis Research

Spring. 4 credits. Staff. May be taken as a continuation of, or before, LING 493.

[LING 501(6150) Issues in Biological Info Processing (also COGST 501[6150], PSYCH 501)]

Next offered 2007-2008. For description, see COGST 501.]

[LING 530(5530) Representation of Structure in Vision and Language (also COGST/PSYCH 530[6300])]

Next offered 2007-2008. For description, see PSYCH 530.]

LING 600(6600) Field Methods

Spring. 4 credits. Prerequisites: LING 401 and 403 or permission of instructor. A. Cohn and J. Legate. Elicitation, recording, and analysis of data from a native speaker of a non-Western language not generally known to students.

[LING 601(6601) Topics in Phonological Theory]

Spring. 4 credits, variable. Prerequisites: LING 401 and one higher-level phonology course. Next offered 2007–2008. Staff.

Selected topics in current phonological theory.]

[LING 602(6602) Topics in Morphology]

Fall. 4 credits. Prerequisites: LING 401 or 403 or permission of instructor. Next offered 2007–2008. Staff.

Selected topics in current morphological theory.]

LING 604(6604) Research Workshop

Fall. 2 credits. Requirement for third-year linguistics graduate students. S-U grades only. M. Wagner.

Provides a forum for presentation and discussion of ongoing research, and development of professional skills. Participants must enroll in a concurrent independent study with a special committee member, or a relevant workshop.

[LING 606(6606) Historical Syntax]

Fall. 4 credits. Prerequisite: LING 403. Next offered 2008–2009. J. Whitman.]

[LING 609(6609) SLA and the Asian Languages (also ASIAN 610[6610])]

Next offered 2007–2008.]

[LING 615(6615) Topics in Semantics]

Fall. 4 credits. Prerequisite: LING 421 or permission of instructor. Next offered 2007–2008. D. Abusch.

Selected topics in semantic theory, focusing on recent literature.]

LING 616(6616) Topics in Syntactic Theory

Fall. 4 credits, variable. Prerequisite: LING 404 or permission of instructor. M. Diesing.

Examination of recent developments in syntactic theory, including “minimalist” approaches to phrase structure, derivations/representations and the nature of economy conditions, and parametric differences.

[LING 617–618(6617–6618) Hittite]

617, fall; 618, spring. 4 credits each semester. Prerequisites: for LING 617, permission of instructor; for LING 618, LING 617 or permission of instructor. Next offered 2007–2008. M. Weiss.

Introduction to the cuneiform writing system and the grammar of Hittite, followed by the reading of selected texts.]

[LING 619(6619) Rigveda]

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2008–2009. Staff.]

[LING 621(6621) Avestan and Old Persian]

Fall. 4 credits. Prerequisite: basic knowledge of Sanskrit forms and morphology syntax. Next offered 2008–2009. M. Weiss.

Linguistically oriented readings of Old Persian and Avestan.]

LING 623–624(6623–6624) Old Irish I, II

623, fall; 624, spring. 4 credits each semester. Prerequisite: for LING 624, LING 623 or permission of instructor. M. Weiss.

[LING 625(6625) Middle Welsh]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2008–2009. W. Harbert.

Students develop a reading knowledge of Middle Welsh through translating selections from prose and poetry. No familiarity with Welsh is assumed.]

[LING 631(6631) Comparative Indo-European Linguistics]

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2008–2009. Staff. Introduction to the comparative grammar of the Indo-European languages.]

LING 633(6633) Language Acquisition Seminar (also COGST/HD 633[6330])

Fall. 1–4 credits. Prerequisite: LING 436 or equivalent or permission of instructor. B. Lust.

This seminar reviews and critiques current theoretical and experimental studies of first language acquisition, with a concentration on insights gained by cross-linguistic study of this area. Attention is also given to the development of research proposals.

[LING 635–636(6635–6636) Indo-European Workshop]

635, fall; 636, spring. 4 credits each semester. Prerequisite: permission of instructor. Next offered 2007–2008. M. Weiss.

An assortment of subjects intended for students with previous training in Indo-European linguistics.]

[LING 637(6637) Introduction to Tocharian]

Fall. 4 credits. Prerequisite: knowledge of other ancient IE language and historical linguistics methods. Next offered 2008–2009. M. Weiss.

Introduction to the grammar of Tocharian A and B.]

LING 645(6645) Gothic

Fall. 4 credits. Prerequisite: LING 101.

Offered every three years. W. Harbert. Linguistic structure of Gothic, with extensive readings of Gothic texts.

LING 646(6646) Old High German, Old Saxon (also GERST 658[6580])

Spring. 4 credits. Prerequisite: LING 101. Highly recommended: reading knowledge of Modern German. Offered every three years. W. Harbert.

Combines a survey of the linguistic history and structure of Old High German and Old Saxon with extensive readings from the major documents in which they are recorded.

LING 648(6648) Speech Synthesis (also INFO 648[6648])

Spring. 4 credits. Prerequisite: LING 401, 419, or permission of instructor. Offered alternate years. S. Hertz.

Investigates the nature of the acoustic structure of speech synthesis, using speech as a tool for exploring this structure. A particular acoustic model is proposed, developed, and motivated by considering the relationship between phonological and acoustic structure, speech timing, phonetic universals, coarticulation, and speech perception. The primary tool for investigation is the Delta System, a powerful software system for investigating phonology and phonetics through speech synthesis. The course is meant for graduate students and advanced undergraduate students in linguistics, but may also be of interest to students in psychology/psycholinguistics, computer science, and cognitive studies.

[LING 649(6649) Structure of Old English]

Fall. 4 credits. Prerequisite: LING 441. Offered every three years; next offered 2007–2008. W. Harbert.

Linguistic overview of Old English, with emphasis on phonology, morphology, and syntax.]

[LING 661(6661) Old Church Slavonic (also RUSSA 601[6601])]

Fall. 4 credits. Prerequisite: knowledge of Slavic or ancient Indo-European language. Prerequisite to LING 662 and 671. Next offered 2007–2008. W. Browne.

Grammar and reading of basic texts.]

[LING 662(6662) Old Russian Texts (also RUSSA 602[6602])]

Spring. 4 credits. Prerequisite: LING 661. Next offered 2007–2008. W. Browne.

Grammatical analysis and close reading of Old Russian texts.]

[LING 671(6671) Comparative Slavic Linguistics (also RUSSA 651[6651])]

Fall. 4 credits. Prerequisites: LING 661 taken previously or simultaneously, or permission of instructor. Offered alternate years; next offered 2007–2008. W. Browne.]

LING 700(7700) Seminar

Fall or spring. Credit TBA.

Seminars are offered according to faculty interest and student demand. Topics for 2006–2007 include: semantics; computational linguistics; language acquisition; and the nature of the interfaces between phonetics, phonology, and syntax.

LING 701–702(7701–7702) Directed Research

701, fall; 702, spring. 1–4 credits. Times TBA. Staff.

MATHEMATICS

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D. Barbasch, chair; A. Back, Y. Berest, L. Billera, D. Bock, K. Brown, K. Calta, X. Cao, S. Chase, R. Connelly, R. K. Dennis, R. Durrett, E. Dynkin, L. Gross, J. Guckenheimer, A. Hatcher (DUS), D. Henderson, T. Holm, J. Hubbard, J. Hwang, Y. Ilyashenko, P. Kahn, M. Kassabov, G. Lawler, A. Lozano-Robledo, G. Michler, C. Muscalu, A. Nerode, M. Nussbaum, A. Pantano, I. Peeva, R. Ramakrishna, E. Rassart, T. Riley, L. Rogers, L. Saloff-Coste, A. Schatz, S. Sen, R. A. Shore, R. Sjamaar, J. Smillie, B. Speh, M. E. Stillman (DGS), R. Strichartz, E. Swartz, M. Terrell, R. Terrell, W. Thurston, A. Vladimirovsky, K. Vogtmann, L. Wahlbin, J. West. Emeritus: J. Bramble, M. Cohen, C. Earle, R. Farrell, H. Kesten, G. R. Livesay, M. Morley, L. E. Payne, A. Rosenberg, M. Sweedler.

Mathematics is the language of modern science; basic training in the discipline is essential for those who want to understand, as well as for those who want to take part in, the important scientific developments of our time. Acquaintance with mathematics is also extremely useful for students in the social sciences and valuable for anyone interested in the full range of human culture and the ways of knowing the universe in which we live.

The Department of Mathematics faculty has strong groups specializing in algebra, number theory, combinatorics, real and complex

analysis, Lie groups, topology and geometry, logic, probability and statistics, mathematical physics, and applied mathematics. Related departments at Cornell have specialists in computer science, operations research, linear programming, and game theory, and courses in these topics can be integrated readily into the mathematics major.

The department offers a rich variety of undergraduate courses, and many of its beginning graduate courses are suitable for advanced undergraduates as well. Under some conditions, a student may carry out an independent reading and research project for college credit under the supervision of a faculty member.

Members of the department are available to discuss with students the appropriate course for their levels of ability and interest, and students are urged to avail themselves of this help.

Students who want to take any of the courses numbered 300 or above are invited to confer, before registering, with the instructor concerned. The level of a course is indicated by the first digit of the course number: roughly, 1, 2, indicate underclass courses; 3, 4, upperclass courses; 5, professional level and mathematics education courses; 6, 7, graduate courses. The subject matter of courses is often indicated by the second digit: 0, general; 1, 2, analysis; 3, 4, algebra and combinatorics; 5, 6, topology and geometry; 7, probability and statistics; 8, logic; 9, other.

Midterm grades, when required, will be S or U only, except in special circumstances. In courses with numbers below 700, students will receive letter grades, with the exception of nonmathematics majors who have requested an S-U grade.

Advanced Placement

Secondary school students are strongly urged to take one of the two advanced placement exams of the College Entrance Examination Board in their senior year. Freshmen who have had some calculus but who have not taken an advanced placement exam should take the placement exam in mathematics offered at Cornell just before the beginning of classes in the fall. Anyone with any knowledge of calculus should carefully read "Advanced Placement," p. 7.

The Major

The mathematics major adapts to a number of purposes. It can emphasize the theoretical or the applied. It can be appropriate for professionals and nonprofessionals alike, and can be broad or narrow. It can also be combined easily with serious study in another subject in the physical, biological, or social sciences by means of a double major and/or concentration. For example, a double major in mathematics and computer science is facilitated by the concentration in computer science (requirement 4, option b) described below. This concentration permits a student to use certain computer science courses to satisfy the requirements of both majors. Questions concerning the major should be brought to a departmental representative.

Prerequisites

The traditional prerequisites are MATH 221-222, 223-224, or 293-294. Normally students will be admitted to the major only when they have grades of B- or better in all 200-

level mathematics courses taken. Alternative prerequisites are MATH 213 and 231, normally with grades of B+ or better.

Requirements

There are five requirements for the major:

1. COM S 100. Students are urged to take this course before the end of their sophomore year.
2. Two courses in algebra. Eligible courses are
MATH 431 or 433
MATH 432 or 434
MATH 437
MATH 332 or 336
(Credit for both MATH 332 and 336 will be granted only if both were taken during or before spring 2002.)
3. Two courses in analysis. Eligible courses are MATH 311, 321, 323, 413, 414, 418, 420, 422, 424, 425, 428.
4. Five further high-level mathematical courses. Two-credit courses count as half courses. For students graduating in May 2007 or later, 500-level MATH courses will not normally count toward the major. In rare cases, exceptions are made. Students should consult their advisors. The seven alternatives (a-g) below do not exhaust the possibilities. A mathematics major interested in a concentration in a subject different from those below may develop a suitable individual program in consultation with his or her major advisor.

a. Concentration in Mathematics:

- i. Four additional MATH courses numbered 300 or above.
- ii. One course dealing with mathematical models. Any course from outside mathematics with serious mathematical content and dealing with scientific matters. Serious mathematical content includes, but is not limited to, extensive use of calculus or linear algebra. Any course from another department that would satisfy one of the other concentrations may be used. In addition, COM S 211, MATH 335/COM S 480, MATH/BIOEE 362, MATH 384/PHIL 330, MATH 481/PHIL 431, MATH 482/PHIL 432, MATH 483/PHIL 436, MATH/COM S 486, PHYS 116, 208, 213, or 217 may be used, but no other 100-level physics course, nor PHYS 207 or 209, may be used. Some courses in biology, chemistry, and other fields may be used.

b. Concentration in Computer Science: Five additional courses from (iii) and (iv) below, of which at least one is from (iii) and three are from (iv).

- iii. Mathematics courses numbered 300 or above.
- iv. Computer science courses with significant mathematical content. Eligible courses are: COM S 321, 322, 381, 400, 411, 421, 426, 427, 428, at most one of 465 and 467, 468, 474, 478, 480, 481, 482, 483, and 486. Students graduating in January 2007 or earlier may use

any COM S course numbered 300 or above to fulfill this requirement.

- c. **Concentration in Economics:** Five additional courses from (v), (vi), and (vii) below, as follows: one course from (v), three courses from (vi), and a fifth course from any of (v), (vi), or (vii). However, MATH 472 and ECON 319 cannot both be used to satisfy these requirements.
 - v. Mathematics courses numbered 300 or above.
 - vi. Economics courses with significant mathematical content. Eligible courses are ECON 319, 320, 325, 327, 368 (formerly 467), 416, 419, 450 (also AEM 450), 476, 477, 609, 610, 613, 614, 619, 620, 676, 677, 717, 748, 749, 756. For students graduating in May 2007 or later, only two of the econometrics courses (320, 325, 327, 748, 749) are allowed.
 - vii. Courses in operations research with significant mathematical content and dealing with material of interest in economics; e.g., OR&IE 320, 321, 432, 435, 474, and 476. However, the student may, with the advisor's approval, select an OR&IE course that satisfies the basic intent of the requirement but is not in this list.
- d. **Concentration in Mathematical Biology:** Five additional courses from (viii) and (ix) below, with three courses from (viii) and two courses from (ix).
 - viii. Biology courses that have mathematical content or provide background necessary for work at the interface between biology and mathematics. Examples include BIOBM/COM S 321, BIOEE/MATH 362, BIOEE 460, BIOGD 481, 484, 487, BIONB 330, 422, BTRY 382, 408, 409, 482. (BTRY 408 and 409 cannot be taken for credit with MATH 471 and 472.)
 - ix. Mathematics courses numbered above 300. Particularly appropriate are MATH 420 and 471.
- e. **Concentration in Mathematical Physics:** Five additional courses from (x) and (xi) below, of which at least one is from (x) and three are from (xi).
 - x. Mathematics courses in analysis, geometry, algebra and combinatorics, probability and statistics, and mathematical logic. Eligible courses are MATH 311, 321, 323, 401, 413, 414, 420, 418 or 422, 424, 425, 428, 431 or 433, 432 or 434, 437, 441, 442, 450, 451, 452, 453, 454, 455, 471, 472, 481, 482, 483, 486.
 - xi. Physics courses that make significant use of advanced mathematics. Eligible courses are PHYS 314, 316, 317, 318, 323, 327, 341, 443, 444, 445, 451, 454, 455, 456, 457, 480, 481.
- f. **Concentration in Operations Research:** Five additional courses from (xii) and (xiii) below, of which at least one is from (xii) and three are from (xiii).

- xii. Mathematics courses numbered 300 or above.
- xiii. Courses in operations research in which the primary focus involves mathematical techniques. Eligible courses are: OR&IE 320, 321, 360, 361, 431, 432, 434, 435, 436, 451, 462, 483. Many operations research graduate courses are also allowed. Students should consult with their advisors.

g. **Concentration in Statistics:** Five additional courses from (xiv), (xv), and (xvi) below, which include both from (xv) and at least two from (xvi). MATH 171 is recommended as an additional course, not counting toward the requirements. It should be taken, or audited, before or simultaneously with MATH 471.

xiv. Mathematics courses numbered 300 or above.

xv. MATH 471 and 472.

xvi. Courses in other departments with significant content in probability and statistics, complementing (xiv). Eligible courses are BTRY 302 and 482; OR&IE 361, 462, 464, 468, 469, 473, 474, and 476 (counted as half a course here); ILRST 312, 410, and 411; and ECON 320. Many graduate courses co-listed in the Department of Statistical Science are also allowed (e.g., BTRY 602, 603, and 604). Students should consult their advisors.

A course may be counted toward the mathematics major only if it is taken for a letter grade and a grade of C- or better is received for that course.

Major advisors can alter these requirements upon request from an advisee, provided the intent of the requirements is met.

Senior Thesis

A senior thesis can form a valuable part of a student's experience in the mathematics major. It is intended to allow students to cover significant areas of mathematics not covered in course work, or not covered there in sufficient depth. The work should be independent and creative. It can involve the solution of a serious mathematics problem, or it can be an expository work, or variants of these. Both the process of doing independent research and mathematics exposition, as well as the finished written product and optional oral presentation, can have a lasting positive impact on a student's educational and professional future.

Double Majors

The Departments of Computer Science, Economics, and Physics all permit double majors with the mathematics major, allowing the courses listed under the corresponding concentrations above to be counted for both majors. Students should consult the appropriate departments for any further conditions.

Honors Program

The Department of Mathematics awards honors (cum laude) and high honors (magna cum laude and summa cum laude) to graduating mathematics majors who have

demonstrated outstanding ability in the major program.

The awards are determined by the Mathematics Major Committee in the latter part of the semester before graduation. The committee will primarily be looking for excellent performance in mathematics courses, particularly in challenging courses at the 400 level or beyond. Participation in the honors seminar (MATH 401) for one semester, or independent study at a high performance level can also contribute to honors. Students interested in honors should consult their major advisors concerning suitable courses.

Outstanding performance in graduate classes or an excellent senior thesis can also contribute to high honors. Students interested in high honors should consult their major advisors and the chair of the department's Mathematics Major Committee during the second semester of their junior year.

Teacher Education in Mathematics

For information on the various possibilities for students considering teaching mathematics in schools, go to www.math.cornell.edu/Undergraduate/Teaching.

Studying Mathematics Outside the Major

The College of Arts and Sciences and the Department of Mathematics offer no minor or concentration in mathematics for students who are not math majors. However, some other scientific departments in the college offer, within their own majors, concentrations in mathematics and mathematics-related fields. A student interested in such a concentration should consult the director of undergraduate studies of his or her major department.

The College of Engineering offers a minor in applied mathematics that is open to any undergraduate in that college. The minor is sponsored jointly by the Department of Mathematics and the Department of Theoretical and Applied Mechanics, and is administered by the latter department. Engineering students interested in this minor should contact Professor Richard Rand of the Department of Theoretical and Applied Mechanics (255-7145; rrh2@cornell.edu).

The Department of Mathematics welcomes into its upper-level courses students from all colleges, schools, and departments at Cornell. In particular, undergraduates who wish to pursue serious study of mathematics, whether within or to complement their own major fields, are encouraged to consult with the department. The department's director of undergraduate studies and other faculty can provide assistance in selecting appropriate areas of study and individual courses.

Distribution Requirement

The mathematics courses that can be used to satisfy the Mathematics and Quantitative Reasoning part of the Arts College distribution requirements are indicated by the symbol "(MQR)".

Basic Sequences

Precalculus

Description	Courses
1. Algebra and trigonometry to prepare students for calculus	MATH 109* or EDUC 005*
2. Algebra, analytic geometry, elements of calculus	EDUC 115*, MATH 100*

*MATH 100, MATH 109, EDUC 005, and EDUC 115 do not carry credit for graduation in the Arts College.

Students who want a semester of calculus after EDUC 115 or MATH 100 may take MATH 106 or 111. Noncalculus alternatives are MATH 105 or 171.

Calculus

Description	Mathematics Courses
1. Standard three-semester sequence for students who do not expect to take advanced courses in mathematics	111-112-213
2. Calculus for engineers (also taken by some physical science majors)	191-192-293-294

3. Several sequences are possible for prospective mathematics majors and others who expect to take advanced courses in mathematics: 111-112-221-222, 111-112-221-222, 111-112-223-224 or some mix of these courses. Students may also take the engineering sequence 191-192-293-294. Students are encouraged to consult with their advisors.

MATH 191 may be substituted for 112. The two-year sequences include some linear algebra. Students who take the three-semester sequence 111-112-213 may learn some linear algebra by taking MATH 231.

Special-Purpose Sequences

Description	Mathematics Courses
1. Finite mathematics and calculus for life and social science majors	105-106
2. Other possible finite mathematics and calculus sequence	105-111
3. Calculus and statistics sequences	106-171 111-171

Students who want to take two semesters of calculus are advised to take the first two semesters of one of the three calculus sequences. Students with excellent performance in MATH 106 may follow that course with MATH 112 or 122. The courses in each of the calculus and statistics sequences may be taken in either order, since no calculus background is required for MATH 171. Each of the sequences listed here satisfies the mathematics requirement for most medical schools.

Switching between calculus sequences is often difficult, especially at the 200 level. Students should not attempt such a switch without consulting the director of undergraduate studies.

Courses with Overlapping Content

Because the department offers many courses with overlapping content, students must choose their courses carefully to ensure that they will receive credit for each course they take. Listed below are groups of courses that have similar content. Students will receive credit for only one of the courses in each group.

106, 111
112, 122, 191
192, 213, 222, 224
221, 223, 231, 294
332, 335, 336*
431 and 433
432 and 434

*Credit for both MATH 332 and MATH 336 will be granted only if both were taken during or before spring 2002.

Note: Courses with overlapping content are not necessarily equivalent courses. Students are encouraged to consult a mathematics faculty member when choosing between them.

Fees

In some courses there may be a small fee for photocopying materials to be handed out to students.

Summer Courses

A list of mathematics courses usually offered every summer can be found in the School of Continuing Education and Summer Sessions section of this catalog. Students interested in taking summer courses in mathematics should consult the Department of Mathematics web site (www.math.cornell.edu). A tentative summer listing may be available as early as October.

Undergraduate Course Offerings

Please visit www.math.cornell.edu for further information and up-to-the-minute corrections.

Foundation courses: 105, 106, 111, 112, 122, 191, 192, 213, 221, 222, 223, 224, 231, 293, 294

Mathematics Education: 408, 451

History of Mathematics: 403

General and Liberal Arts Courses: 103, 134, 135, 171, 201, 304, 401, 408

Analysis: 311, 321, 413, 414, 418

Algebra and Number Theory: 332, 335, 336, 431, 432, 433, 434, 437

Combinatorics: 441, 442, 455

Geometry and Topology: 356, 450, 451, 452, 453, 454

Probability and Statistics: 171, 275, 471, 472

Mathematical Logic: 281, 384, 481, 482, 483, 486

Applied Analysis and Differential Equations: 323, 362, 420, 422, 424, 425, 428

MATH 005(0005) Academic Support for MATH 105

Fall, 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in MATH 105 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 105 lectures or recitations.

MATH 006(0006) Academic Support for MATH 106

Spring, 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in MATH 106 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 106 lectures or recitations.

MATH 011(0011) Academic Support for MATH 111

Fall, spring, 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in MATH 111 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 111 lectures or recitations.

MATH 012(0012) Academic Support for MATH 112

Fall, spring, 1 transcript credit only; cannot be used toward graduation.

Reviews material presented in MATH 112 lectures, provides problem-solving techniques and tips as well as prelim review. Provides further instruction for students who need reinforcement. Not a substitute for MATH 112 lectures or recitations.

MATH 100(1000) Calculus Preparation

Fall, spring, 2 transcript credits only; cannot be used toward graduation.

Introduces a wide variety of topics of algebra and trigonometry that have applications in various disciplines. Emphasis is on the development of linear, polynomial, rational, trigonometric, exponential, and logarithmic functions. Students will have a better understanding of the behavior of these functions in their application to calculus because of the strong emphasis on graphing. Application of these mathematical ideas is addressed in problem-solving activities.

MATH 103(1103) Mathematical Explorations (MQR)

Fall, spring, summer, 3 credits.

For students who wish to experience how mathematical ideas naturally evolve. The homework consists of the students actively investigating mathematical ideas. The course emphasizes ideas and imagination as opposed to techniques and calculations. Topics vary depending on the instructor and are announced (www.math.cornell.edu) several weeks before the semester begins. Some assessment is done through writing assignments.

MATH 105(1105) Finite Mathematics for the Life and Social Sciences (MQR)

Fall, 3 credits. Prerequisite: three years high school mathematics, including trigonometry and logarithms.

Introduction to linear algebra, probability, and Markov chains that develops the parts of the theory most relevant for applications. Specific topics include equations of lines, the method of least squares, solutions of linear systems, matrices; basic concepts of probability, permutations, combinations, binomial distribution, mean and variance, and the normal approximation to the binomial distribution. Examples from biology and the social sciences are used.

MATH 106(1106) Calculus for the Life and Social Sciences (MQR)*

Spring, 3 credits. Prerequisite: readiness for calculus, such as can be obtained from three years of high school mathematics (including trigonometry and logarithms) or from MATH 100, MATH 109, or EDUC 115. For students planning to take MATH 112, MATH 111 is recommended rather than 106.

Introduction to differential and integral calculus, partial derivatives, elementary differential equations. Examples from biology and the social sciences are used.

MATH 109(1109) Precalculus Mathematics

Summer, 3 transcript credits only; cannot be used toward graduation.

Designed to prepare students for MATH 111. Reviews algebra, trigonometry, logarithms, and exponentials.

MATH 111(1110) Calculus I (MQR)*

Fall, spring, summer, 4 credits.

Prerequisite: MATH 109 or three years of high school mathematics, including trigonometry and logarithms.

Topics include functions and graphs, limits and continuity, differentiation and integration of algebraic, trigonometric, inverse trig, logarithmic, and exponential functions; applications of differentiation, including graphing, max-min problems, tangent line approximation, implicit differentiation, and applications to the sciences; the mean value theorem; and antiderivatives, definite and indefinite integrals, the fundamental theorem of calculus, substitution in integration, the area under a curve. Graphing calculators are used, and their pitfalls are discussed, as applicable to the above topics. MATH 111 can serve as a one-semester introduction to calculus or as part of a two-semester sequence in which it is followed by MATH 112 or 122.

MATH 112(1120) Calculus II (MQR)*

Fall, spring, 4 credits. Prerequisite: MATH 111 with grade of C or better or excellent performance in MATH 106. Those who do well in MATH 111 and expect to major in mathematics or strongly mathematics-related field should take 122 instead of 112.

Focuses on integration: applications, including volumes and arc length; techniques of integration, approximate integration with error estimates, improper integrals, differential equations (separation of variables, initial conditions, systems, some applications). Also covers infinite sequences and series: definition and tests for convergence, power series, Taylor series with remainder, and parametric equations.

MATH 122(1220) Honors Calculus II (MQR)*

Fall, 4 credits. Prerequisite: one semester of calculus with high performance or permission of department. Students planning to continue with MATH 213 are advised to take 112 instead of this course.

Takes a more theoretical approach to calculus than MATH 112. Topics include differentiation and integration of elementary transcendental functions, techniques of integration, applications, polar coordinates, infinite series, and complex numbers, as well as an introduction to proving theorems.

*See the list of courses with overlapping content at the end of the introduction.

MATH 134(1340) Mathematics and Politics

Fall, spring, 4 credits.

We apply mathematical reasoning to some problems arising in the social sciences. We discuss game theory and its applications to political and historical conflicts. Power indices are introduced and used to analyze some political institutions. The problem of finding a fair election procedure to choose among three or more alternatives is analyzed.

MATH 135(1350) The Art of Secret Writing (MQR)

Fall, spring, summer, 3 credits.

Prerequisite: three years high school mathematics.

Examines classical and modern methods of message encryption, decryption, and cryptanalysis. Mathematical tools are developed to describe these methods (modular arithmetic, probability, matrix arithmetic, number theory), and some of the fascinating history of the methods and people involved is presented.

MATH 171(1710) Statistical Theory and Application in the Real World (MQR)

Fall, spring, summer, 4 credits.

Prerequisite: high school mathematics. No previous familiarity with computers presumed. No credit if taken after ECON 319, 320, or 321.

Introductory statistics course discussing techniques for analyzing data occurring in the real world and the mathematical and philosophical justification for these techniques. Topics include population and sample distributions, central limit theorem, statistical theories of point estimation, confidence intervals, testing hypotheses, the linear model, and the least squares estimator. The course concludes with a discussion of tests and estimates for regression and analysis of variance (if time permits). The computer is used to demonstrate some aspects of the theory, such as sampling distributions and the Central Limit Theorem. In the lab portion of the course, students learn and use computer-based methods for implementing the statistical methodology presented in the lectures.

MATH 191(1910) Calculus for Engineers (MQR)

Fall, spring, summer, 4 credits.

Prerequisite: three years high school mathematics including trigonometry and logarithms and at least one course in differential and integral calculus.

Essentially a second course in calculus. Topics include techniques of integration, finding areas and volumes by integration, exponential growth, partial fractions, infinite sequences and series, and power series.

MATH 192(1920) Multivariable Calculus for Engineers (MQR)*

Fall, spring, summer, 4 credits.

Prerequisite: MATH 191.

Introduction to multivariable calculus. Topics include partial derivatives, double and triple integrals, line integrals, vector fields, Green's theorem, Stokes' theorem, and the divergence theorem.

MATH 201(2010) Invitation to Higher Math: Algebra and Geometry (MQR)

Spring, 3 credits.

Provides a preview of some of the more advanced parts of mathematics that do not involve calculus. Topics are chosen for their intrinsic interest and beauty rather than practical utility. One theme is to see some of the strange and surprising mathematical universes that can be constructed when one is not confined to the everyday real world. Another theme is the rich interplay between algebra and geometry, how each illuminates the other. A high point is a geometric proof that there is no general formula for solving polynomial equations of degree five and greater such as the well-known quadratic formula. Intended for students who may be considering a math major, or who just like math and are good at it.

MATH 213(2130) Calculus III (MQR)*

Fall, spring, 4 credits. Prerequisite: MATH 112, 122, or 191.

Designed for students who wish to master the basic techniques of multivariable calculus, but whose major will not require a substantial amount of mathematics. Topics include vectors and vector-valued functions; multivariable and vector calculus including multiple and line integrals; first- and second-order differential equations with applications; systems of differential equations; and elementary partial differential equations. The course may emphasize different topics in the syllabus in different semesters.

MATH 221(2210) Linear Algebra (MQR)*

Fall, spring, 4 credits. Prerequisite: two semesters of calculus with high performance or permission of department. Recommended for students who plan to major in mathematics or a related field. For a more applied version of this course, see MATH 231.

Topics include vector algebra, linear transformations, matrices, determinants, orthogonality, eigenvalues, and eigenvectors. Applications are made to linear differential equations.

MATH 222(2220) Multivariable Calculus (MQR)*

Fall, spring, 4 credits. Prerequisite: MATH 221. Recommended for students who plan to major in mathematics or a related field. Differential and integral calculus of functions in several variables, line and surface integrals as well as the theorems of Green, Stokes, and Gauss.

MATH 223(2230) Theoretical Linear Algebra and Calculus (MQR)*

Fall, 4 credits. Prerequisite: two semesters of calculus with grade of A- or better, or permission of instructor.

MATH 223–224 provides an integrated treatment of linear algebra and multivariable calculus designed for students who have been highly successful in their previous calculus courses. The material is presented at a higher theoretical level than in 221–222. Topics in 223 include vectors, matrices, and linear transformations; differential calculus of functions of several variables; inverse and implicit function theorems; quadratic forms, extrema, and manifolds; multiple and iterated integrals.

MATH 224(2240) Theoretical Linear Algebra and Calculus (MQR)*

Spring, 4 credits. Prerequisite: MATH 223.

Topics include vector fields; line integrals; differential forms and exterior derivative; work, flux, and density forms; integration of forms over parametrized domains; and Green's, Stokes', and divergence theorems.

MATH 231(2310) Linear Algebra with Applications (MQR)*

Fall, spring, 3 credits. Prerequisite: MATH 111 or equivalent. Students who plan to major in mathematics should take MATH 221 or 294.

Introduction to linear algebra for students who wish to focus on the practical applications of the subject. A wide range of applications are discussed and computer software may be used. The main topics are systems of linear equations, matrices, determinants, vector spaces, orthogonality, and eigenvalues. Typical applications are population models, input/output models, least squares, and difference equations.

MATH 275(2750) Living in a Random World (MQR)

Spring, 3 credits. Prerequisite: one semester of calculus. Some familiarity with integration and differentiation is useful, but the equivalent of a one-semester course in calculus is more than enough.

Concentrates on applications of probability in the physical, biological, and social sciences, and to understanding the world around us (e.g., games, lotteries, option pricing, and opinion polls).

MATH 281(2810) Deductive Logic (also PHIL 331[3310]) (MQR)

Fall, 4 credits. H. Hodes.

For description, see PHIL 331.

MATH 293(2930) Differential Equations for Engineers (MQR)

Fall, spring, summer, 4 credits.

Prerequisite: MATH 192. Taking MATH 293 and 294 simultaneously is not recommended.

Introduction to ordinary and partial differential equations. Topics include: first-order equations (separable, linear, homogeneous, exact); mathematical modeling (e.g., population growth, terminal velocity); qualitative methods (slope fields, phase plots, equilibria, and stability); numerical methods; second-order equations (method of undetermined coefficients, application to oscillations and resonance, boundary-value problems and eigenvalues); Fourier series; linear partial differential equations (heat flow, waves, the Laplace equation); and linear systems of ordinary differential equations.

MATH 294(2940) Linear Algebra for Engineers (MQR)*

Fall, spring, summer, 4 credits.

Prerequisite: MATH 192. Taking MATH 293 and 294 simultaneously is not recommended.

Linear algebra and its applications. Topics include matrices, determinants, vector spaces, eigenvalues and eigenvectors, orthogonality and inner product spaces; applications include brief introductions to difference equations, Markov chains, and systems of linear ordinary differential equations. May include computer use in solving problems.

*See the list of courses with overlapping content at the end of the introduction.

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MATH 304(3040) Prove It! (MQR)

Spring. 4 credits. Prerequisite: MATH 221, 223, 294, or permission of instructor.

In mathematics, the methodology of proof provides a central tool for confirming the validity of mathematical assertions, functioning much as the experimental method does in the physical sciences. In this course, students learn various methods of mathematical proof, starting with basic techniques in propositional and predicate calculus and in set theory and combinatorics, and then moving to applications and illustrations of these via topics in one or more of the three main pillars of mathematics: algebra, analysis, and geometry. Since cogent communication of mathematical ideas is important in the presentation of proofs, the course emphasizes clear, concise exposition. This course is useful for all students who wish to improve their skills in mathematical proof and exposition, or who intend to study more advanced topics in mathematics.

MATH 311(3110) Introduction to Analysis (MQR)

Fall, spring. 4 credits. Prerequisites: MATH 221-222, 223-224, or 192 and 294.

Provides a transition from calculus to real analysis. Topics include rigorous treatment of fundamental concepts in calculus: including limits and convergence of sequences and series, compact sets; continuity, uniform continuity and differentiability of functions. Emphasis is placed upon understanding and constructing mathematical proofs.

MATH 321(3210) Manifolds and Differential Forms (MQR)

Fall. 4 credits. Prerequisites: multivariable calculus and linear algebra (e.g., MATH 221-222, 223-224, or 192 and 294).

A manifold is a type of subset of Euclidean space that has a well-defined tangent space at every point. Such a set is amenable to the methods of multivariable calculus. After a review of some relevant calculus, this course investigates manifolds and the structures that they are endowed with, such as tangent vectors, boundaries, orientations, and differential forms. The notion of a differential form encompasses such ideas as surface and volume forms, the work exerted by a force, the flow of a fluid, and the curvature of a surface, space, or hyperspace. The course re-examines the integral theorems of vector calculus (Green, Gauss, and Stokes) in the light of differential forms and apply them to problems in partial differential equations, topology, fluid mechanics, and electromagnetism.

MATH 323(3230) Introduction to Differential Equations (MQR)

Fall. 4 credits. Prerequisites: multivariable calculus and linear algebra (e.g., MATH 221-222, 223-224, or 192 and 294), or permission of instructor.

Intended for students who want a brief one-semester introduction to the theory and techniques of both ordinary and partial differential equations. Topics for ordinary differential equations may include initial-value and two-point boundary value problems, the basic existence and uniqueness theorems, continuous dependence on data, stability of fix-points, numerical methods, special functions. Topics for partial differential equations may include the Poisson, heat and wave equations, boundary and initial-boundary value problems, maximum

principles, continuous dependence on data, separation of variables, Fourier series, Green's functions, numerical methods, transform methods.

MATH 332(3320) Algebra and Number Theory (MQR)*

Fall. 4 credits. Prerequisite: MATH 221, 223, 231 or 294.

Covers various topics from number theory and modern algebra. Usually includes most of the following: primes and factorization, Diophantine equations, congruences, quadratic reciprocity, continued fractions, rings and fields, finite groups, and an introduction to the arithmetic of the Gaussian integers and quadratic fields. Motivation and examples for the concepts of abstract algebra are derived primarily from number theory and geometry.

MATH 335(3350) Introduction to Cryptology (also COM S 480[4870]) (MQR)

Fall, spring. 3 credits. Prerequisites: MATH 221-222, 223-224, or 192 and 294, and COM S 100 or equivalent.

Introduction to the algorithmic and mathematical concepts of cryptanalysis. Topics include security vs. feasibility and different types of cryptographic attack, elementary probability, number theory, cryptographic hash functions, and secret and public key cryptography.

MATH 336(3360) Applicable Algebra (MQR)*

Spring, summer. 4 credits. Prerequisite: MATH 221, 223, 231, or 294.

Introduction to the concepts and methods of abstract algebra and number theory that are of interest in applications. Covers the basic theory of groups, rings and fields and their applications to such areas as public-key cryptography, error-correcting codes, parallel computing, and experimental designs. Applications include the RSA cryptosystem and use of finite fields to construct error-correcting codes and Latin squares. Topics include elementary number theory, Euclidean algorithm, prime factorization, congruences, theorems of Fermat and Euler, elementary group theory, Chinese remainder theorem, factorization in the ring of polynomials, and classification of finite fields.

MATH 356(3560) Groups and Geometry (MQR)

Spring. 4 credits. Prerequisite: MATH 221, 223, 231 or 294. Prior knowledge of group theory is not a prerequisite.

A geometric introduction to the algebraic theory of groups, through the study of symmetries of planar patterns and 3-dimensional regular polyhedra. Besides studying these algebraic and geometric objects themselves, the course also provides an introduction to abstract mathematical thinking and mathematical proofs, serving as a bridge to the more advanced 400-level courses. Abstract concepts covered include: axioms for groups; subgroups and quotient groups; isomorphisms and homomorphisms; conjugacy; group actions, orbits, and stabilizers. These are all illustrated concretely through the visual medium of geometry.

[MATH 362(3620) Dynamic Models in Biology (also BIOEE 362[3620]) (MQR)]

Spring. 4 credits. Prerequisite: two semesters of introductory biology (BIO G 101-102, 105-106, 107-108, 109-110, or equivalent) and completion of math requirements for biological sciences major or equivalent. Next offered 2007-2008.

For description, see BIOEE 362.]

MATH 401(4010) Honors Seminar: Topics in Modern Mathematics (MQR)

Spring. 4 credits. Prerequisite: two mathematics courses numbered 300 or higher or permission of instructor.

Participatory seminar aimed primarily at introducing senior and junior mathematics majors to some of the challenging problems and areas of modern mathematics. Helps students develop research and expository skills in mathematics, which is important for careers in any field that makes significant use of the mathematical sciences (i.e., pure or applied mathematics, physical or biological sciences, business and industry, medicine). Content varies from year to year.

MATH 403(4030) History of Mathematics # (MQR)

Spring. 4 credits. Prerequisite: two mathematics courses above 300, or permission of instructor.

Survey of the development of mathematics from antiquity to the present, with an emphasis on the achievements, problems, and mathematical viewpoints of each historical period and the evolution of such basic concepts as number, geometry, construction, and proof. Readings from original sources in translation. Students are required to give oral and written reports.

[MATH 408(4080) Mathematics in Perspective (MQR)]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008.

Re-examines very basic mathematics from an advanced perspective, emphasizing the connections between branches and ties of current mathematical interest. Emphasis on communication of mathematics.]

MATH 413(4130) Honors Introduction to Analysis I (MQR)

Fall, spring. 4 credits. Prerequisite: high level of performance in MATH 221-222, 223-224, or 192 and 294 and familiarity with proofs. Students who do not intend to take MATH 414 are encouraged to take MATH 413 in spring.

Introduction to the rigorous theory underlying calculus, covering the real number system and functions of one variable. Based entirely on proofs. The student is expected to know how to read and, to some extent, construct proofs before taking this course. Topics typically include construction of the real number system, properties of the real number system, continuous functions, differential and integral calculus of functions of one variable, sequences and series of functions.

MATH 414(4140) Honors Introduction to Analysis II (MQR)

Spring. 4 credits. Prerequisite: MATH 413.

Proof-based introduction to further topics in analysis. Topics may include the Lebesgue measure and integration, functions of several variables, differential calculus, implicit function theorem, infinite dimensional normed

*See the list of courses with overlapping content at the end of the introduction.

and metric spaces, Fourier series, ordinary differential equations.

MATH 418(4180) Introduction to the Theory of Functions of One Complex Variable (MQR)

Spring. 4 credits. Prerequisite: MATH 223–224, 311, or 413 or permission of instructor.

Theoretical and rigorous introduction to complex variable theory. Topics include complex numbers, differential and integral calculus for functions of a complex variable including Cauchy's theorem and the calculus of residues, elements of conformal mapping. Students interested in the applications of complex analysis should consider MATH 422.

MATH 420(4200) Differential Equations and Dynamical Systems (MQR)

Fall, spring. 4 credits. Prerequisite: high level of performance in MATH 221–222, 223–224, 192 and 294, or permission of instructor.

Covers ordinary differential equations in one and higher dimensions: qualitative, analytic, and numerical methods. Emphasis is on differential equations as models and the implications of the theory for the behavior of the system being modeled and includes an introduction to bifurcations.

MATH 422(4220) Applied Complex Analysis (MQR)

Spring. 4 credits. Prerequisite: MATH 221–222, 223–224, 192 and 294, or 213 and 231. Undergraduates who plan to attend graduate school should take MATH 418.

Covers complex variables, Fourier transforms, Laplace transforms and applications to partial differential equations. Additional topics may include an introduction to generalized functions.

MATH 424(4240) Wavelets and Fourier Series (MQR)

Spring. 4 credits. Prerequisite: MATH 221–222, 223–224, 192 and 294, or permission of instructor.

Both Fourier series and wavelets provide methods to represent or approximate general functions in terms of simple building blocks. Such representations have important consequences, both for pure mathematics and for applications. Fourier series use *natural* sinusoidal building blocks and may be used to help solve differential equations. Wavelets use *artificial* building blocks that have the advantage of localization in space. A full understanding of both topics requires a background involving Lebesgue integration theory and functional analysis. This course presents as much as possible on both topics without such formidable prerequisites. The emphasis is on clear statements of results and key ideas of proofs, working out examples, and applications. Related topics that may be included are Fourier transforms, Heisenberg uncertainty principle, Shannon sampling theorem, and Poisson summation formula.

[MATH 425(4250) Numerical Analysis and Differential Equations (MQR)]

Fall. 4 credits. Prerequisite: MATH 221–222, 223–224, or 192 and 294, one course numbered 300 or higher in mathematics and COM S 100, or permission of instructor. Next offered 2007–2008.

Introduction to the fundamentals of numerical analysis: error analysis, interpolation, direct and iterative methods for systems of

equations, numerical integration. Applications to solving differential equations.]

MATH 428(4280) Introduction to Partial Differential Equations (MQR)

Spring. 4 credits. Prerequisite: MATH 221–222, 223–224, or 192 and 294, or permission of instructor.

Topics are selected from first-order quasilinear equations, classification of second-order equations, with emphasis on maximum principles, existence, uniqueness, stability, Fourier series methods, approximation methods.

MATH 431(4310) Linear Algebra (MQR)*

Fall. 4 credits. Prerequisite: MATH 221, 223, 231, or 294. Undergraduates who plan to attend graduate school in mathematics should take MATH 433–434.

Introduction to linear algebra, including the study of vector spaces, linear transformations, matrices, and systems of linear equations. Additional topics are quadratic forms and inner product spaces, canonical forms for various classes of matrices and linear transformations.

MATH 432(4320) Introduction to Algebra (MQR)*

Spring. 4 credits. Prerequisite: MATH 332, 336, 431 or 433, or permission of instructor. Undergraduates who plan to attend graduate school in mathematics should take MATH 433–434.

Introduction to various topics in abstract algebra, including groups, rings, fields, factorization of polynomials and integers, congruences, and the structure of finitely generated abelian groups. Optional topics are modules over Euclidean domains and Sylow theorems.

MATH 433(4330) Honors Linear Algebra (MQR)*

Fall. 4 credits. Prerequisite: high level of performance in MATH 221, 223, 231, or 294.

Honors version of a course in advanced linear algebra, which treats the subject from an abstract and axiomatic viewpoint. Topics include vector spaces, linear transformations, polynomials, determinants, tensor and wedge products, canonical forms, inner product spaces, and bilinear forms. Emphasis is on understanding the theory of linear algebra; homework and exams include at least as many proofs as computational problems. For a less theoretical course that covers approximately the same subject matter, see MATH 431.

MATH 434(4340) Honors Introduction to Algebra (MQR)*

Spring. 4 credits. Prerequisite: MATH 332, 336, 431, or 433, or permission of instructor.

Honors version of a course in abstract algebra, which treats the subject from an abstract and axiomatic viewpoint, including universal mapping properties. Topics include groups, groups acting on sets, Sylow theorems; rings, factorization: Euclidean rings, principal ideal domains and unique factorization domains, the structure of finitely generated modules over a principal ideal domain, fields, and Galois theory. The course emphasizes understanding the theory with proofs in both homework and exams. An optional computational component using the computer

*See the list of courses with overlapping content at the end of the introduction.

language GAP is available. For a less theoretical course that covers similar subject matter, see MATH 432.

MATH 437(4370) Computational Algebra

Fall. 4 credits. Prerequisite: linear algebra (MATH 294, or MATH 221, or MATH 431). Introduction to Gröbner bases theory, which is the foundation of many algorithms in computational algebra. In this course, students learn how to compute a Gröbner basis for polynomials in many variables. Covers the following applications: solving systems of polynomial equations in many variables, solving diophantine equations in many variables, 3-colorable graphs, and integer programming. Such applications arise, for example, in computer science, engineering, economics, and physics.

MATH 441(4410) Introduction to Combinatorics I (MQR)

Fall. 4 credits. Prerequisite: MATH 221, 223, 231, or 294.

Combinatorics is the study of discrete structures that arise in a variety of areas, particularly in other areas of mathematics, computer science, and many areas of application. Central concerns are often to count objects having a particular property (e.g., trees) or to prove that certain structures exist (e.g., matchings of all vertices in a graph). The first semester of this sequence covers basic questions in graph theory, including extremal graph theory (how large must a graph be before one is guaranteed to have a certain subgraph) and Ramsey theory (which shows that large objects are forced to have structure). Variations on matching theory are discussed, including theorems of Dilworth, Hall, König, and Birkhoff, and an introduction to network flow theory. Methods of enumeration (inclusion/exclusion, Möbius inversion, and generating functions) are introduced and applied to the problems of counting permutations, partitions, and triangulations.

[MATH 442(4420) Introduction to Combinatorics II (MQR)]

Spring. 4 credits. Prerequisite: MATH 221, 223, 231, or 294. Next offered 2007–2008. Continues 441, although formally independent. Latin squares, combinatorial designs, classical finite geometries and combinatorial geometries (matroids). Partially ordered sets, Möbius inversion, Polya counting theory.]

MATH 450(4500) Matrix Groups

Fall. 4 credits. Prerequisite: MATH 221–222, 223–224, or 192 and 294.

An introduction to a topic that is central to mathematics and important in physics too, although usually taught only at the graduate level as in MATH 650, Lie Groups. The objects of study are certain classes of matrices, such as orthogonal, unitary, or symplectic matrices. These classes have both algebraic structure (groups) and geometric/topological structure (manifolds). Thus the course will be a mixture of algebra and geometry/topology, with a little analysis as well. Concrete examples will be emphasized, as is appropriate for an undergraduate introduction. Background not included in the official prerequisites will be developed as needed.

MATH 451(4510) Euclidean and Spherical Geometry (MQR)

Fall. 4 credits. Prerequisite: MATH 221, 223, 231, or 294, or permission of instructor.

Covers topics from Euclidean and spherical (non-Euclidean) geometry. Nonlecture, seminar-style course organized around student participation.

[MATH 452(4520) Classical Geometries (MQR)]

Spring. 4 credits. Prerequisite: MATH 221, 223, 231, or 294, or permission of instructor. Offered alternate years; next offered 2007-2008.

Introduction to hyperbolic and projective geometry—the classical geometries that developed as Euclidean geometry was better understood.]

MATH 453(4530) Introduction to Topology (MQR)

Fall. 4 credits. Prerequisite: MATH 221, 223, 231, or 294, plus at least one mathematics course numbered 300 or above, or permission of instructor.

Topology may be described briefly as qualitative geometry. This course begins with basic point-set topology, including connectedness, compactness, and metric spaces. Later topics may include the classification of surfaces (such as the Klein bottle and Möbius band), elementary knot theory, or the fundamental group and covering spaces.

MATH 454(4540) Introduction to Differential Geometry (MQR)

Spring. 4 credits. Prerequisites: MATH 221-222, 223-224, or 293-294, plus at least one mathematics course numbered 300 or above. MATH 453 is not a prerequisite.

Differential geometry involves using calculus to study geometric concepts such as curvature and geodesics. This introductory course focuses on the differential geometry of curves and surfaces. It may also touch upon the higher-dimensional generalizations, Riemannian manifolds, which underlie the study of general relativity.

MATH 455(4550) Applicable Geometry (MQR)

Spring. 4 credits. Prerequisite: good introduction to linear algebra (e.g., MATH 221, 223, 231, or 294) or permission of instructor. Does not assume students know the meaning of all words in the following description.

Introduction to the theory of n -dimensional convex polytopes and polyhedra and some of its applications, with an in-depth treatment of the case of 3-dimensions. Discusses both combinatorial properties (e.g., face counts) as well as metric properties (e.g., rigidity). Covers theorems of Euler, Cauchy, and Steinitz, Voronoi diagrams and triangulations, convex hulls, cyclic polytopes, shellability and the upper-bound theorem. Relates these ideas to applications in tiling, linear inequalities and linear programming, structural rigidity, computational geometry, hyperplane arrangements and zonotopes.

MATH 471(4710) Basic Probability (MQR)

Fall, spring. 4 credits. Prerequisites: one year of calculus. Recommended: some knowledge of multivariate calculus.

Introduction to probability theory, which prepares the student to take MATH 472. The course begins with basics: combinatorial probability, mean and variance, independence, conditional probability, and Bayes formula. Density and distribution functions and their properties are introduced. The law of large numbers and the central limit theorem are

stated and their implications for statistics are discussed.

MATH 472(4720) Statistics (MQR)

Spring. 4 credits. Prerequisites: MATH 471 and knowledge of linear algebra (e.g., MATH 221). Recommended: some knowledge of multivariable calculus.

Statistics have proved to be an important research tool in nearly all of the physical, biological, and social sciences. This course serves as an introduction to statistics for students who already have some background in calculus, linear algebra, and probability theory. Topics include parameter estimation, hypothesis testing, and linear regression. The course emphasizes both the mathematical theory of statistics and techniques for data analysis that are useful in solving scientific problems.

MATH 481(4810) Mathematical Logic (also PHIL 431(4310)) (MQR)

Spring. 4 credits. Prerequisites: MATH 222 or 223 and preferably some additional course involving proofs in mathematics, computer science, or philosophy.

First course in mathematical logic providing precise definitions of the language of mathematics and the notion of proof (propositional and predicate logic). The completeness theorem says that we have all the rules of proof we could ever have. The Gödel incompleteness theorem says that they are not enough to decide all statements even about arithmetic. The compactness theorem exploits the finiteness of proofs to show that theories have unintended (nonstandard) models. Possible additional topics: the mathematical definition of an algorithm and the existence of noncomputable functions; the basics of set theory to cardinality and the uncountability of the real numbers.

MATH 486(4860) Applied Logic (also COM S 486(4860)) (MQR)

Spring. 4 credits. Prerequisites: MATH 221-222, 223-224, or 192 and 294; COM S 280 or equivalent (e.g., MATH 332, 336, 432, 434, or 481); and additional course in mathematics or theoretical computer science.

Covers propositional and predicate logic; compactness and completeness by tableaux, natural deduction, and resolution. Other possible topics include equational logic; Herbrand Universes and unification; rewrite rules and equational logic, Knuth-Bendix method and the congruence-closure algorithm and lambda-calculus reduction strategies; topics in Prolog, LISP, ML, or Nuprl; and applications to expert systems and program verification.

MATH 490(4900) Supervised Reading and Research

Fall, spring. 1-6 credits.

Supervised reading and research by arrangement with individual professors. Not for material currently available in regularly scheduled courses.

Professional-Level and Mathematics Education Courses

[MATH 505(5050) Educational Issues in Undergraduate Mathematics]

Spring. 4 credits. Prerequisite: graduate standing or permission of instructor. Next offered 2007-2008.

Examines various educational issues in undergraduate mathematics and the

relationship of these issues to the mathematics itself. The precise choice of topics varies, but the intent is that a balance of different views be presented and discussed.]

MATH 507(5070) Teaching Secondary Mathematics: Theory and Practices

Spring. 4 credits.

Provides direct experience of new approaches, curricula, and standards in mathematics education. Discussion of articles, activities for the secondary classroom, and videotape of classroom teaching are tied to in-class exploration of math problems. Experience in the computer lab, examining software environments and their use in the mathematics classroom is included. Participants are expected to write short papers, share ideas in class, and present their opinions on issues.

MATH 508(5080) Mathematics for Secondary School Teachers

Fall, spring. 1-6 credits. Prerequisite: secondary school mathematics teachers or permission of instructor.

Examination of the principles underlying the content of the secondary school mathematics curriculum, including connections with the history of mathematics and current mathematics research.

Graduate Courses

Many of our graduate courses are topics courses for which descriptions are not included here; however, during each pre-enrollment period a schedule of graduate courses to be offered the following semester is posted at www.math.cornell.edu/Courses/courses.html. This web site includes course descriptions that are often more detailed than those included here, as well as a means for interested students to participate in the process of selecting meeting times.

MATH 611(6110) Real Analysis

Fall. 4 credits.

MATH 611-612 are the core analysis courses in the mathematics graduate program. 611 covers measure and integration and functional analysis.

MATH 612(6120) Complex Analysis

Spring. 4 credits.

MATH 611-612 are the core analysis courses in the mathematics graduate program. 612 covers complex analysis, Fourier analysis, and distribution theory.

MATH 613-614(6130-6140) Topics in Analysis

613, fall; 614, spring. 4 credits each.

MATH 615(6150) Mathematical Methods in Physics

Fall. 4 credits. Prerequisite: for undergraduates, permission of instructor. Intended for graduate students in physics or related fields. Recommended: a strong advanced calculus course and at least two years of general physics.

Assumes knowledge of elements of finite dimensional vector space theory, complex variables, separation of variables in partial differential equations, and Fourier series. Designed to give a working knowledge of the principal mathematical methods used in advanced physics. Covers Hilbert space, generalized functions, Fourier transform, Sturm-Liouville problem in ODE, Green's functions, and asymptotic expansions.

MATH 617(6170) Dynamical Systems

Fall. 4 credits. Generally offered every two years.

Topics include existence and uniqueness theorems for ODEs; Poincaré-Bendixon theorem and global properties of two-dimensional flows; limit sets, nonwandering sets, chain recurrence, pseudo-orbits and structural stability; linearization at equilibrium points: stable manifold theorem and the Hartman-Grobman theorem; and generic properties: transversality theorem and the Kupka-Smale theorem. Examples include expanding maps and Anosov diffeomorphisms; hyperbolicity: the horseshoe and the Birkhoff-Smale theorem on transversal homoclinic orbits; rotation numbers; Herman's theorem; and characterization of structurally stable systems.

MATH 618(6180) Smooth Ergodic Theory

Spring. 4 credits.

Topics include invariant measures; entropy; Hausdorff dimension and related concepts; hyperbolic invariant sets: stable manifolds, Markov partitions and symbolic dynamics; equilibrium measures of hyperbolic attractors; ergodic theorems; Pesin theory: stable manifolds of nonhyperbolic systems; Liapunov exponents; and relations between entropy, exponents, and dimensions.

[MATH 619-620(6190-6200) Partial Differential Equations

619, fall; 620, spring. 4 credits each semester. Next offered 2007-2008.

Covers basic theory of partial differential equations.]

MATH 621(6210) Measure Theory and Lebesgue Integration

Fall. 4 credits.

Covers measure theory, integration, and L_p spaces.

MATH 622(6220) Applied Functional Analysis

Spring. 4 credits. Not offered every year. Covers basic theory of Hilbert and Banach spaces and operations on them. Applications.

[MATH 628(6280) Complex Dynamical Systems

Fall. 4 credits. Prerequisite: MATH 418. Next offered 2007-2008.

This course covers various topics in the dynamics of analytic mappings in one complex variable, such as Julia and Fatou sets, the Mandelbrot set and selected additional topics.]

MATH 631(6310) Algebra

Fall. 4 credits. Assumes familiarity with material of standard undergraduate course in abstract algebra.

MATH 631-632 are the core algebra courses in the mathematics graduate program. 631 covers group theory, especially finite groups; rings and modules; ideal theory in commutative rings; arithmetic and factorization in principal ideal domains and unique factorization domains; introduction to field theory; tensor products and multilinear algebra. (Optional topic: introduction to affine algebraic geometry.)

MATH 632(6320) Algebra

Spring. 4 credits. Prerequisite: MATH 631. MATH 631-632 are the core algebra courses in the mathematics graduate program. 632 covers Galois theory, representation theory of finite groups, introduction to homological algebra. Familiarity with the material of a standard

undergraduate course in abstract algebra will be assumed.

MATH 633(6330) Noncommutative Algebra

Fall. 4 credits.

Covers Wedderburn structure theorem, Brauer group, and group cohomology.

[MATH 634(6340) Commutative Algebra

Spring. 4 credits. Next offered 2007-2008.

Covers Dedekind domains, primary decomposition, Hilbert basis theorem, and local rings.]

MATH 649(6490) Lie Algebras

Fall. 4 credits.

Topics include nilpotent, solvable and reductive Lie algebras; enveloping algebras; root systems; Coxeter groups; and classification of simple algebras.

[MATH 650(6500) Lie Groups

Fall. 4 credits. Next offered 2007-2008.

Topics include topological groups, Lie groups; relation between Lie groups and Lie algebras; exponential map, homogeneous manifolds; and invariant differential operators.]

MATH 651(6510) Algebraic Topology

Spring. 4 credits.

One of the core topology courses in the mathematics graduate program. An introductory study of certain geometric processes for associating algebraic objects such as groups to topological spaces. The most important of these are homology groups and homotopy groups, especially the first homotopy group or fundamental group, with the related notions of covering spaces and group actions. The development of homology theory focuses on verification of the Eilenberg-Steenrod axioms and on effective methods of calculation such as simplicial and cellular homology and Mayer-Vietoris sequences. If time permits, the cohomology ring of a space may be introduced.

MATH 652(6520) Differentiable Manifolds I

Fall. 4 credits. Prerequisites: advanced calculus, linear algebra (MATH 431), point-set topology (MATH 453).

One of the core topology courses in the mathematics graduate program. Introduction to geometry and topology from a differentiable viewpoint, suitable for beginning graduate students. The objects of study are manifolds and differentiable maps. The collection of all tangent vectors to a manifold forms the tangent bundle, and a section of the tangent bundle is a vector field. Alternatively, vector fields can be viewed as first-order differential operators. Students study flows of vector fields and prove the Frobenius integrability theorem. In the presence of a Riemannian metric, the notions of parallel transport, curvature, and geodesics are developed. Students examine the tensor calculus and the exterior differential calculus and prove Stokes' theorem. If time permits, de Rham cohomology, Morse theory, or other optional topics are introduced.

[MATH 653(6530) Differentiable Manifolds II

Spring. Prerequisites: MATH 652 or equivalent. Next offered 2007-2008.

Advanced topics from differential geometry and differential topology selected by instructor. Examples of eligible topics include transversality, cobordism, Morse theory, classification of vector bundles and principal

bundles, characteristic classes, microlocal analysis, conformal geometry, geometric analysis and partial differential equations, and Atiyah-Singer index theorem.]

MATH 661(6610) Geometric Topology

Fall. 4 credits.

Introduction to some of the more geometric aspects of topology and its connections with group theory. Possible topics include surface theory, 3-manifolds, knot theory, geometric and combinatorial group theory, hyperbolic groups, and hyperbolic manifolds.

[MATH 662(6620) Riemannian Geometry

Spring. 4 credits. Next offered 2007-2008.

Topics include linear connections, Riemannian metrics and parallel translation; covariant differentiation and curvature tensors; the exponential map, the Gauss Lemma and completeness of the metric; isometries and space forms, Jacobi fields and the theorem of Cartan-Hadamard; the first and second variation formulas; the index form of Morse and the theorem of Bonnet-Myers; the Rauch, Hessian, and Laplacian comparison theorems; the Morse index theorem; the conjugate and cut loci; and submanifolds and the Second Fundamental form.]

MATH 671(6710) Probability Theory I

Fall. 4 credits. Prerequisite: knowledge of Lebesgue integration theory, at least on real line. (Students can learn this material by taking parts of MATH 413-414 or 621.)

Conditional expectation, martingales, Brownian motion. Other topics such as random walks and ergodic theory, depending on time and interest of the students and the instructor.

MATH 672(6720) Probability Theory II

Spring. 4 credits. Prerequisite: MATH 671.

Content will vary from year to year. Course may be taken more than once for credit. Previously, topics have been chosen from stochastic calculus, diffusion processes, martingale problems, weak convergence, and Markov processes in continuous time.

MATH 674(6740) Introduction to Mathematical Statistics

Spring. 4 credits. Prerequisites: MATH 671 (measure theoretic probability) and OR&IE 670, or permission of instructor.

Topics include an introduction to the theory of point estimation, hypothesis testing and confidence intervals, consistency, efficiency, and the method of maximum likelihood. Basic concepts of decision theory are discussed; the key role of the sufficiency principle is highlighted and applications are given for finding Bayesian, minimax, and unbiased optimal decisions. Modern computer-intensive methods like the bootstrap receive some attention, as do simulation methods involving Markov chains. The parallel development of some concepts of machine learning is exemplified by classification algorithms. An optional section may include nonparametric curve estimation and elements of large sample asymptotics.

MATH 675(6750) Statistical Theories Applicable to Genomics

Fall. 4 credits.

Focuses on statistical concepts useful in genomics (e.g., microarray data analysis) that involve a large number of populations. Topics include multiple testing and closed testing (the cornerstone of multiple testing), family-wise error rate, false discovery rate (FDR)

of Benjamini and Hochberg, and Storey's papers relating to pFDR. Also discussed are the shrinkage technique or the Empirical Bayes approach, equivalent to the BLUP in a random effect model, which is a powerful technique, taking advantage of a large number of populations. A related technique, which allows use of the same data to select and make inferences for the selected populations (or genes), is discussed. If time permits, there may be some lectures about permutation tests, bootstrapping, and QTL identification.

MATH 681(6810) Logic

Spring. 4 credits.

Covers basic topics in mathematical logic, including propositional and predicate calculus; formal number theory and recursive functions; completeness and incompleteness theorems, compactness and Skolem-Löwenheim theorems. Other topics as time permits.

[MATH 703(7030) Topics in the History of Mathematics]

Spring. 4 credits. Prerequisites: undergraduate algebra and analysis. Next offered 2008-2009.

Topics in the history of modern mathematics at the level of *Evolution of Mathematics in the 19th Century* by Klein, *Abrege D'Histoire Des Mathematiques 1700-1900* by Dieudonné, and *Source Book of Classical Analysis* by Birkhoff.]

MATH 711-[712]([7110]-[7120]) Seminar in Analysis

711, fall; 712, spring. 4 credits. 712 next offered 2007-2008.

MATH 713(7130) Functional Analysis

Fall. 4 credits.

Covers topological vector spaces, Banach and Hilbert spaces, and Banach algebras. Additional topics selected by instructor.

MATH 715(7150) Fourier Analysis

Spring. 4 credits.

[MATH 717(7170) Applied Dynamical Systems (also T&AM 776[7760])]

Spring. 4 credits. Recommended: T&AM 675, MATH 617, or equivalent. Next offered 2007-2008.

Topics include review of planar (single-degree-of-freedom) systems; local and global analysis; structural stability and bifurcations in planar systems; center manifolds and normal forms; the averaging theorem and perturbation methods; Melnikov's method; discrete dynamical systems, maps and difference equations, homoclinic and heteroclinic motions, the Smale Horseshoe and other complex invariant sets; global bifurcations, strange attractors, and chaos in free and forced oscillator equations; and applications to problems in solid and fluid mechanics.]

[MATH 722(7220) Topics in Complex Analysis]

Fall. 4 credits. Next offered 2008-2009.

Selections of advanced topics from complex analysis, such as Riemann surfaces, complex dynamics, and conformal and quasiconformal mapping. Course content varies.]

[MATH 728(7280) Seminar in Partial Differential Equations]

Spring. 4 credits. Next offered 2008-2009.]

MATH [731]-732([7310]-7320) Seminar in Algebra

731, fall; 732, spring. 4 credits each semester. 731 next offered 2007-2008.

MATH 735(7350) Topics in Algebra

Fall, spring. 4 credits.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Course content varies.

MATH 737(7370) Algebraic Number Theory

Fall. 4 credits.

MATH 739(7390) Topics in Algebra

Spring. 4 credits.

Selection of advanced topics from algebra, algebraic number theory, and algebraic geometry. Content varies.

MATH 740(7400) Homological Algebra

Fall. 4 credits.

MATH 751-752(7510-7520) Bernstein Seminar in Topology

751, fall; 752, spring. 4 credits each semester.

MATH 753(7530) Algebraic Topology II

Fall. 4 credits.

Continuation of 651. The standard topics most years are cohomology, cup products, Poincaré duality, and homotopy groups. Other possible topics include fiber bundles, fibrations, vector bundles, and characteristic classes. May sometimes be taught from a differential forms viewpoint.

MATH 755-756(7550-7560) Topology and Geometric Group Theory Seminar

755, fall; 756, spring. 4 credits each semester.

MATH [757]-758([7570]-7580) Topics in Topology

757, fall; 758, spring. 4 credits each semester. 757 next offered 2007-2008.

Selection of advanced topics from modern algebraic, differential, and geometric topology. Content varies.

MATH 761-762(7610-7620) Seminar in Geometry

761, fall; 762, spring. 4 credits each semester. Either 761 or 762 generally offered every year.

MATH 767(7670) Algebraic Geometry

Spring. 4 credits.

MATH 771-772(7710-7720) Seminar in Probability and Statistics

771, fall; 772, spring. 4 credits each semester.

[MATH 774(7740) Statistical Learning Theory]

Fall. 4 credits. Prerequisites: basic mathematical statistics (MATH 674 or equivalent) and measure theoretic probability (MATH 671). Next offered 2007-2008.

The course aims to present the developing interface between machine learning theory and statistics. Topics are classification and pattern recognition, support vector machines, neural networks, tree methods, and boosting.]

MATH 777-778(7770-7780) Stochastic Processes

777, fall; 778, spring. 4 credits each semester.

MATH 781-782(7810-7820) Seminar in Logic

781, fall; 782, spring. 4 credits each semester.

[MATH 783(7830) Model Theory]

Spring. 4 credits. Next offered 2007-2008.

Introduction model theory at the level of the books by Hodges or Chang and Keisler.]

MATH 784(7840) Recursion Theory

Spring. 4 credits.

Covers theory of effectively computable functions; classification of recursively enumerable sets; degrees of recursive unsolvability; applications to logic; hierarchies; recursive functions of ordinals and higher type objects; generalized recursion theory.

MATH 787(7870) Set Theory

Fall. 4 credits.

First course in axiomatic set theory at the level of the book by Kunen.

MATH 788(7880) Topics in Applied Logic

Fall. 4 credits.

Covers applications of the results and methods of mathematical logic to other areas of mathematics and science. Topics vary each year; some recent examples are: automatic theorem proving, formal semantics of programming and specification languages, linear logic, constructivism (intuitionism), nonstandard analysis, and automata theory. This year the course will cover Kolmogorov complexity and algorithmic information theory. We use the theory of algorithms to define the complexity of an individual finite bit string. This is then applied to infinite bit strings via their initial segments, and we get a notion of algorithmically random real number. Further topics include prefix complexity, a priori probability and Shannon entropy.

MATH 790(7900) Supervised Reading and Research

Fall, spring. 1-6 credits.

MEDIEVAL STUDIES

P. R. Hyams, director; F. M. Ahl, R. Brann, C. Brittain, E. W. Browne, O. Falk, A. S. Galloway, A. B. Groos, K. Haines-Eitzen, W. E. Harbert, T. D. Hill, C. Howie, W. J. Kennedy, S. MacDonald, M. Migiel, J. M. Najemy, J. A. Peraino, S. Pinet, D. S. Powers, M. Raskolnikov, E. Rebillard, C. Robinson, C. Ruff, S. Senderovich, S. M. Toorawa, S. Zacher, Emeritus: A. M. Colby-Hall, J. J. John, C. V. Kaske, P. I. Kuniholm, W. Wetherbee.

Undergraduate Study in Medieval Studies

Course work in medieval studies enhances the student's enjoyment and understanding of the artistic and material relics of the Middle Ages: Gregorian chant, illuminated manuscripts and stained glass windows, Gothic cathedrals, Crusader castles, and picturesque towns cramped within ancient walls. Students discover the serious realities involved in, and shaped by, Arthurian tales of brave knights and fair ladies, dungeons, dragons, and other marvels. Students can analyze and appreciate the horrors of the Black Death, triumphs in courtly love and pitched battle, swords and scimitars, caliphs and popes, fear of demons and djinns, and the reassuring presence of angels. Students can study all this and more very well in English, but see below for how to acquire the medieval languages that so enhance the experience.

The period saw many of the foundational choices that have, for good and ill, made the world what it is today. Many of our current

challenges in the fields of law, human rights, attitudes toward power, authority, gender relations, and sexual mores derive from the ways in which these and other questions were formulated a millennium ago. It actually makes good sense to think out your positions on today's world through study of the less complicated but intriguing medieval West, with whose successes and failures we must still contend. Serious investigation of exotic materials marks this concentration out as a unique addition to Cornell's training. The Medieval Studies Program houses a lively undergraduate association, *Quodlibet*, that arranges frequent lectures on medieval topics and an annual celebratory Reading of prose and poetry in many medieval languages.

The "middle" in "Middle Ages" comes from its position between antiquity and the "modern" period, in a schema created for European and Western conditions. Our concentration, however, is more properly inclusive and treats a time span from roughly the fifth century into the 16th and ranges from Western Europe and the Mediterranean to China and Japan. To discover the vibrant state of medieval studies today, students should look at the extraordinary range of scholarly, but accessible, web sites that have sprung up all over the Internet. (They can start from *Cornucopia* noted below.) Cornell possesses a wealth of resources to introduce students to every corner of the field.

Many students feel bound to choose their majors with an eye to future careers and earning potential. While this concentration provides strong interdisciplinary breadth to many majors (e.g., classics, all modern languages, history, music, philosophy), and is excellent preparation for graduate study in a medieval field, science majors do well too. The program provides encouragement, guidance, and an avenue for intelligent appreciation of an important part of all our pasts.

Undergraduates who wish to undertake an independent major or concentration in medieval studies should consult the director of the program, 259 Goldwin Smith Hall, 255-8545, medievalst@cornell.edu.

The undergraduate concentration in medieval studies shall consist of five medieval courses (at the 200 level or above) in at least two different disciplines, of which up to two may also count toward the major.

Medieval Languages

Medieval texts (like all others) become most lively and informative when read in the original, and Cornell fortunately offers many courses for students interested in acquiring the relevant skills: Medieval Latin, Old English, Middle English, Gothic, Old Saxon, Old High German, Middle High German, Old Norse-Icelandic, Old Irish, Middle Welsh, Old Occitan (Provençal), Old French, Medieval Spanish, Medieval Italian, Old Russian, Old Church Slavonic, Classical Arabic, Medieval Hebrew, Classical Chinese, and Classical Japanese.

Some medieval languages require study of a modern language (e.g., French for Old Occitan and Old French) or a classical language (Classical Latin for Medieval Latin) as background. Students interested in a concentration in Medieval Studies should begin the study of a medieval language as

early as possible, so that they may be able to study texts in the original before they graduate. Students are advised to consult the sponsoring departments for information about the prerequisites for various medieval languages.

Graduate Study

The Medieval Studies Program offers both an interdisciplinary and a literary comparative Ph.D. in medieval studies. Disciplinary fields of concentration offered within the Field of medieval studies are medieval archaeology, medieval history, medieval history of art, medieval literature, medieval music, medieval philology and linguistics, and medieval philosophy. Information about the graduate program in medieval studies is available from the field coordinator (medievalst@cornell.edu), and at *Cornucopia*, the program's web site (www.arts.cornell.edu/medieval).

Medieval Studies Courses: Graduate and Undergraduate

Courses in various aspects of medieval studies are offered every year in several cooperating departments, including Art History, Asian Studies, Classics, Comparative Literature, English, German Studies, History, Linguistics, Music, Near Eastern Studies, Philosophy, Romance Studies, Russian Literature, and by the Society for the Humanities. For descriptions, please see the home department. The current year's offerings are:

ART H 309(3250) Introduction to Dendrochronology (also ARKEO 309[3090], CLASS 330[3750])
Spring. 4 credits. S. Manning.

ASIAN 241(2241) China's Literary Heritage: An Introduction in Translation
Spring. 3 credits. D. X. Warner.

CHLIT 213(2213) Classical Chinese
Fall. 3 credits. R. McNeal.

CHLIT 214(2214) Introduction to Classical Chinese
Spring. 3 credits. D. X. Warner.

CHLIT 307(3307) Readings in Classical Chinese Literature
Fall. 4 credits. B. Rusk.

CHLIT 420(4420) Tang Poetry: Themes and Contexts
Fall. 4 credits. D. X. Warner.

CHLIT 615(6615) Seminar: Ideas and Literature of Medieval China
Spring. 4 credits. D. X. Warner.

CLASS 412(4202) Seneca's Letters
Spring. 4 credits. C. Brittain.

CLASS 632(7682) Topics in Ancient History: Religion and Authority in Late Antique North Africa (also HIST 630[6300])
Fall. 4 credits. E. Rebillard.

CLASS 680(7272) The Intellectual World of Rome in the Fourth and Fifth Centuries C.E.
Spring. 4 credits. E. Rebillard.

COM L 356(3560) Renaissance Literature (also ENGL 320[3200])
Spring. 4 credits. W. J. Kennedy.

COM L 450/650(4500/6500) Renaissance Poetry (also ITAL 450/650[4500/6500])
Spring. 4 credits. W. J. Kennedy.

ENGL 311/611(3110/6110) Old English
Fall. 4 credits. T. Hill.

ENGL 312/612(3120/6120) Beowulf
Spring. 4 credits. S. Zacher.

ENGL 319(3190) Chaucer
Spring. 4 credits. M. Raskolnikov.

ENGL 321(3210) Spenser and Malory
Spring. 4 credits. C. Kaske.

ENGL 414(4140) Bodies in the Middle Ages: Incarnation and Performance
Spring. 4 credits. M. Raskolnikov.

ENGL 606(6060) The Alliterative Tradition
Spring. 4 credits. A. Galloway.

ENGL 607(6070) Medieval Psychology: Dream Visions and the Question of the Medieval Unconscious
Fall. 4 credits. M. Raskolnikov.

ENGL 608(6080) Wisdom and Law
Fall. 4 credits. T. Hill.

ENGL 710(7100) Advanced Topics in Old English
Fall. 4 credits. T. Hill.

FRLIT 354(3540) Sad Songs: Medieval Melancholia
Spring. 4 credits. C. Howie.

FRLIT 449/649(4490/6490) Mystics and Mystique (also FGSS 449/649[4490/6490])
Fall. 4 credits. C. Howie.

GERST 405-406(4050-4061) Introduction to Middle High German Literature
405, fall; 406, spring. 4 credits each semester. A. Groos.

GERST 410/610(4100/6100) Senior Seminar: Early Modern City Culture
Fall. 4 credits. A. Groos.

HIST 210(2100) The Government of God
Fall. 4 credits. O. Falk.

HIST 227(2271) Sophomore Seminar: Family Life in Renaissance Italy
Spring. 4 credits. J. Najemy.

HIST 277(2771) Getting Medieval I: The Early Middle Ages
Fall. 4 credits. O. Falk.

HIST 278(2772) Getting Medieval II: The Later Middle Ages
Spring. 4 credits. O. Falk.

HIST 285(2850) From Medievalism to Modernity (also JWST 253[2850])
Fall. 4 credits. V. Caron.

HIST 350(3500) The Italian Renaissance (also ITAL 221[2210])
Spring. 4 credits. J. Najemy.

HIST 351(3510) Machiavelli (also ITAL 351[3510])
Fall. 4 credits. J. Najemy.

HIST 368(3680) Marriage and Sexuality in Medieval Europe (also FGSS 368[3680], RELST 368[3680])
Fall. 4 credits. P. Hyams.

HIST 456/656(4560/6560) Topics in Medieval Historiography
Spring. 4 credits. O. Falk.

HIST 468(4680) Love and Sex in Renaissance Italy (also ITALL 468[4680])
Fall. 4 credits. J. Najemy.

HIST 469/669(4691/6691) The Old English Laws (also ENGL 419[4190])
Fall. 4 credits. P. Hyams and T. Hill.

ITALL 303(3030) Italian in Pre-Modern Times
Spring. 4 credits. M. Migiel.

ITALL 340(3400) History of the Grotesque
Fall. 4 credits. C. Howie.

ITALL 355/655(3550/6550) He Said, She Said: The Battle of the Sexes in Medieval and Renaissance Writing (also FRLIT 355/655[3550/6550], FGSS 356[3560])
Spring. 4 credits. M. Migiel and K. Long.

JPLIT 406(4406) Introduction to Classical Japanese
Fall. 4 credits. K. Selden.

LING 109(1109) English Words: Histories and Mysteries
Spring. 3 credits. W. Harbert.

LING 217(2217) History of the English Language to 1300
Fall. 4 credits. W. Harbert.

LING 236(2236) Introduction to Scottish Gaelic
Spring. 3 credits. W. Harbert.

LING 308(3308) Readings in Celtic Languages
Fall. 2 credits. W. Harbert.

LING 315-316(3315-3316) Old Norse
315, fall; 316, spring. 4 credits each term.
A. Angantytsson.

LING 347(3347) Topics in the History of English
Fall. 4 credits. W. Harbert.

LING 417(4417) History of the Russian Language (also RUSSA 401[4401])
Spring. 4 credits. W. Browne.

LING 623(6623) Old Irish I
Fall. 4 credits. M. Weiss.

LING 645(6645) Gothic
Fall. 4 credits. W. Harbert.

LING 646(6646) Old High German/Old Saxon (also GERST 658[6580])
Spring. 4 credits. W. Harbert.

MEDVL 413/613(4103/6103) Survey of Medieval Latin Literature (also LATIN 413/613[4213/7213])
Fall. 4 credits. C. Ruff.

The Survey of Medieval Latin Literature will focus on the intellectual culture of western monasticism from the foundations of a Christian curriculum in late antiquity through the 12th century—a theme which encompasses grammar, exegesis, monastic rules, hagiography, royal and ecclesiastical documents, letter exchange, preaching, and much more. We will begin with Donatus, Augustine, Cassiodorus, and the Rule of St. Benedict; sample early medieval hagiography and foundational documents of the Carolingian *renovatio*; and then move on to

more extended reading of selected texts of Aelred of Rievaulx, Peter the Venerable, and Bernard of Clairvaux. The term will finish on a lighter note with some satirical prose and verse. Students should come to the course with a firm grasp of Latin grammar; advanced topics in syntax will be reviewed as necessary, and we will treat linguistic developments in post-classical Latin and matters of style and versification as they arise.

MEDVL 421/621(4201/6201) Topics in Medieval Latin Literature (also LATIN 423/623[4223/7223])
Spring. 4 credits. C. Ruff.

In Spring 2007, Topics in Medieval Latin Literature will explore the Latin Troy Tradition. Texts and authors will include Ovid's *Heroides*; Statius's *Achilleid*; the *Ilias Latina*; Baudri of Bourgueil; Joseph of Exeter; Guido delle Colonne; and others. We will consider the medieval commentary traditions on ancient and medieval authors as well as the literary and political uses to which the Troy legend was put in the later Middle Ages. The spring course will begin with somewhat simpler texts and give students a chance to build their skills as the course progresses, but will move fairly rapidly towards extended reading from more difficult authors. Substantial attention will be devoted to increasing students' fluency in reading Latin quantitative verse. While the primary focus of the course will be on the Latin tradition, students with interests in the various vernacular Troy traditions will be welcome and encouraged to present seminar papers and pursue research projects related to those traditions.

MEDVL 612(6102) Latin Paleography (also LATIN 622[7222])
Fall. 4 credits. C. Ruff.

Latin Paleography will be devoted in approximately equal measure to the dating, localization, and reading of scripts, and to codicological methods in the study of medieval manuscripts. The primary emphasis will be on Latin bookhands from late antiquity to the invention of printing, but students with interests in earlier or later periods or vernacular texts will have a chance to work on projects in their areas of specialization. We will also spend some time on current manuscript-based research in ancient and medieval literacy and the informational structure of the manuscript page (word division, punctuation, layout, apparatus, glossing, etc.).

MEDVL 777(7770) Medieval Studies Proseminar

Fall and spring. 2 credits each term. Staff.
This reconceived course is designed to introduce graduate students from the Medieval Studies Program and other interested parties to some of the many different approaches available for studying different aspects of the middle ages. It is especially intended to alert students to methodologies and materials outside their previous training. It will also help students to build up a professional knowledge of bibliographic and other essentials for future teaching and research. Different faculty will present every other week during the year.

MEDVL 801 Directed Study—Individual
Fall and spring. Up to 4 credits. Staff.

MEDVL 802 Directed Study—Group
Fall and spring. Up to 4 credits. Staff.

NES 214(2212) Qur'an and Commentary (also RELST 214[2212])
Spring. 3 credits. D. Powers.

NES 251(2651) Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam (also HIST 269[2691], COM L 231[2310], JWST 251[2651], RELST 251[2651])
Fall. 3 credits. R. Brann.

NES 255(2655) Introduction to Islamic Civilization (also HIST 253[2530], RELST 255[2655])
Fall. 3 credits. D. Powers.

NES 265(2565) Law, Society and Culture in the Middle East (also HIST 222[2220], RELST 265[2565])
Spring. 4 credits. D. Powers.

NES 445(4545) Gender, Sexuality & the Body in Late Antiquity (also FGSS 447[4470], RELST 445[4545])
Fall. 4 credits. K. Haines-Eitzen.

NES 457(4657) Seminar in Islamic History: The Formation of Islamic Law (also HIST 453[4530], RELST 457[4657])
Fall. 4 credits. D. Powers.

NES 630(6230) Judeo-Arabic Literature (also JWST 630[6230])
Fall. 4 credits. R. Brann.

PHIL 415(4150) Medieval Philosophy
Spring. 4 credits. S. MacDonald.

SANSK 251-252(2251-2252) Intermediate Sanskrit (also CLASS 291-292[2351-2352], LING 251-252[2251-2252])
251, fall; 252, spring. 3 credits each term.
A. Ruppel.

SPANL 217(2170) Readings in Medieval/Early Modern Spanish
Fall. 4 credits. M. A. Garcés.

SPANL 234(2340) Faith, Love and Adventure in Medieval Spain
Spring. 4 credits. S. Pinet.

MODERN EUROPEAN STUDIES CONCENTRATION

Sydney Van Morgan, coordinator

Students from any college may choose an undergraduate concentration in modern European studies to complement any major. The purpose of the concentration is to provide a coherent structure for students with an interest in interdisciplinary study in the field of European studies.

The concentration has three tracks: European politics, economics, and society; modern European history; and European culture. The requirements for the concentration are:

1. Competence in at least one modern European language, Romance, Germanic, or Slavic (i.e., completion of a 300-level course or equivalent with a grade of at least B-, or demonstration of an advanced level of competence in an oral proficiency interview test where available).
2. Completion of two out of three interdisciplinary core courses:

GOVT/SOC 341(3410) Modern European Society and Politics

Fall. 4 credits. S. Van Morgan.

HIST 271(2271) The Politics of Violence in 20th-Century Europe

Spring. 4 credits. H. Case.

NES 438(4738) Imagining the Mediterranean

Fall. 4 credits. G. Holst-Warhaft.

Under certain conditions, students may be permitted to substitute other courses for those listed above.

3. Completion of one course in modern (post-1789) European history.
4. Two additional courses in any of the three areas, which may include a senior seminar (400 level).
 - a. Courses in European and comparative politics, anthropology, sociology, feminist, gender and sexuality (FGSS) studies, and related courses in the School of Hotel Administration, the College of Agriculture and Life Sciences, and the School of Industrial and Labor Relations.
 - b. Courses in modern European history (post-1789).
 - c. Courses in (post-1789) English and European literatures, comparative literature, semiotics, FGSS, fine arts, architecture, music, philosophy, and film and theatre arts.

Only two courses may be used to satisfy requirements for both the major and the concentration. Courses satisfying the breadth and distribution requirements in the College of Arts and Sciences, however, *may* be applied to the concentration. Students interested in completing a research project under the European Summer Research Program may apply for the Wood Fellowship in their junior year. All concentrators are encouraged to participate in the Language House Program and to spend a semester or more in a program of study in Europe. Courses taken abroad may be applied to the concentration if they are approved for Cornell credit.

Departmental advisors include D. Greenwood (anthropology); C. Otto (architecture); S. Christopherson (CRP); G. Fields (economics); D. Schwarz (English); A. Schwarz (German studies); S. Tarrow (government/sociology); J. Weiss (history); C. Rosen (linguistics); N. Zaslaw (music); T. Campbell (romance studies); G. Shapiro (Russian literature); D. Bathrick (theatre, film, dance).

For a complete list of relevant courses and seminars, and any further information, contact Sydney Van Morgan, coordinator of the Modern European Studies Concentration, at the Institute for European Studies, 120 Uris Hall, 255-7592, sydney.morgan@cornell.edu, www.einaudi.cornell.edu/Europe.

MUSIC

R. Harris-Warrick, chair; R. Sierra, director of undergraduate studies (338 Lincoln Hall, 255-3663); J. Peraino, director of graduate studies (116 Lincoln Hall, 255-5059); J. Armstrong, X. Bjerken, B. Boettcher, K. Ernste, J. Haines-Eitzen, M. Hatch, C. Johnston Turner, J. Kellock, C. Kim, P. Merrill, S. Pond, A. Richards, R. Riley, S. Stucky, K. Taavola, S. Tucker, J. Webster, M. Yampolsky, D. Yearsley, N. Zaslaw. Emeritus: M. Bilson, J. Hsu, K. Husa, S. Monosoff, R. Palmer, D. Rosen, T. Sokol, M. Stith

Office: 255-4097

Web site: www.arts.cornell.edu/music/**Musical Performance and Concerts**

Musical performance is an integral part of Cornell's cultural life and an essential part of its undergraduate academic programs in music. The department encourages music making through its offerings in individual instruction and through musical organizations and ensembles that are directed and trained by members of the faculty. Students from all colleges and departments of the university join with music majors in all of these ensembles:

Vocal ensembles

Chamber Singers
Chorale
Chorus
Glee Club
Sage Chapel Choir
World Music Choir

Instrumental ensembles

Chamber Music Ensembles
Chamber Orchestra
Symphony Orchestra
Jazz Ensembles
Jazz Combos
Chamber Winds
Wind Ensemble
Wind Symphony
Gamelan
Middle Eastern Music Ensemble
World Drum and Dance Ensemble
Steel Band

Information about requirements, rehearsal hours, and conditions for academic credit can be found in the following listings for the Department of Music. Announcements of auditions are posted during registration each fall semester and, where appropriate, each spring semester as well.

The university is also home to many student-run musical organizations not affiliated with the Department of Music, including the Big Red Marching Band and Big Red Pep Band, the Cornell Savoyards, and several a cappella groups. Information is available directly from each group.

The Department of Music and the Faculty Committee on Music sponsor more than 100 formal and informal concerts each year by Cornell's ensembles, faculty, and students and by distinguished visiting artists. The great majority of these concerts are free and open to the public. Lectures and concerts are listed at www.arts.cornell.edu/music/. Additional information is available through the events office (255-4760).

Nonmajors

In addition to its performing, instructional, and concert activities, the department offers numerous courses for nonmajors, many of

which carry no prerequisites and presuppose no previous formal training in music. Consult the following course listings, and for further information consult Professor R. Sierra, director of undergraduate studies (255-3663), or the department office, 101 Lincoln Hall (255-4097).

The Major

The major carries the study of music to an advanced level through the integration of performance, music theory, and music history. It is designed to accommodate both students who are oriented toward eventual graduate or professional work in music and those who wish to take a more general approach, often in conjunction with a major in another department.

Students contemplating a major in music should arrange for placement examinations and advising in the department as early as possible, preferably during the freshman orientation period. Information is available from the director of undergraduate studies. Prerequisites for admission to the major are completion of MUSIC 152 and 154, preferably by the end of the freshman year (the sophomore year is possible, but reduces flexibility), with an overall grade of B- or better in each course. In consultation with the director of undergraduate studies, students are expected to have chosen an advisor from among the department faculty before acceptance into the major; admission to the major is decided by the faculty as a whole. Students majoring in music then design their course of study with their advisor.

Music majors must complete the Core Curriculum plus at least two electives. The Core Curriculum serves as the basis for focus in specific areas, such as composition, performance, jazz studies, vernacular music, Western art music, or Asian music. Students may, however, choose electives that reflect a more broadly based study. Those intending to pursue graduate study or professional work in music are advised to take further courses in addition to the two required electives.

The Core Curriculum consists of courses:

1. in music theory: MUSIC 251, 252, 253, 254
2. in music history: MUSIC 207, 208, 300, 400
3. in performance: four semesters of participation in a musical organization or ensemble sponsored by the department of music (MUSIC 331 through 346 and 421 through 448)

Electives: at least 8 credits from the following:

1. in music theory: courses among the theory listings at the 300 level or above
2. in music history: MUSIC 374 through 399, 401 and above.
3. in performance: MUSIC 322 or 323

Honors. The honors program in music is intended to provide special distinction for the department's ablest undergraduate majors. Qualified students are invited to become candidates by the faculty early in the second semester of their junior year. As soon as possible thereafter, the student forms a committee of three or more faculty members to guide and evaluate the honors work. In their senior year, candidates enroll in MUSIC 401-402 with the chair of the honors committee as instructor. Candidates

are encouraged to formulate programs that allow them to demonstrate their musical and scholarly abilities, culminating in an honors thesis, composition, or recital, to be presented not later than April 1 of the senior year. A comprehensive examination administered by the candidate's committee is held not later than April 20. The level of honors conferred is based primarily on the candidate's performance in the honors program, and secondarily on the candidate's overall record in departmental courses and activities.

Computing in the Arts Undergraduate Concentration

A concentration in Computing in the Arts with an emphasis on music is available both to music majors and to students majoring in other subjects. For more information, contact the department office, 101 Lincoln Hall (255-4097).

Distribution Requirement

College of Arts and Sciences students may apply either one or two music department courses toward the distribution requirement in Literature and the Arts (LA) or Cultural Analysis (CA), as noted. Neither first-year seminars nor advanced placement credit count toward this requirement.

If one music course is counted for distribution, it must carry at least 3 credits, and it may not be in musical performance (MUSIC 321, 322, or 323) or in organizations and ensembles (MUSIC 331 through 348 and 421 through 448). Any two of the 2-credit courses MUSIC 361, 362, 363 count as one course for this purpose.

If two music courses are counted for distribution in LA, they must total at least 6 credits, and at least one of the courses must be academic (as described in the preceding paragraph), not performance-oriented. The second "course," however, may comprise either up to 4 credits earned in performance (MUSIC 321, 322, or 323) or up to 4 credits earned in organizations and ensembles (MUSIC 331 through 348 and 421 through 448), but not both.

Facilities

Music Library. The Sidney Cox Library of Music and Dance in Lincoln Hall has an excellent collection containing approximately 140,000 periodicals, books, scores, and parts; 60,000 sound and video recordings; and a microfilm collection of early printed and manuscript sources. Its depth and breadth serve the needs of a wide variety of users on the campus and its computer lab (designed specifically for music uses), listening, and video viewing facilities are open to all members of the Cornell community. Highlights of the research collection include early opera libretti and scores, 18th-century keyboard and chamber music, 17th- and 18th-century books on music, and an archive of American popular song from 1850 to 1950. In addition, the Carl A. Kroch Library houses, in the Division of Rare and Manuscript Collections, a collection of musical manuscripts and early printed books on music.

Concert Halls. The Department of Music sponsors more than 100 concerts annually. Cornell's principal concert halls are Bailey Hall Auditorium (about 1,400, currently under

renovation), Sage Chapel (about 800), and Barnes Hall Auditorium (about 280).

Rehearsal Spaces and Practice Rooms.

Departmental ensembles rehearse primarily in Lincoln Hall, Barnes Hall, and Sage Chapel. Twenty-six studios in Lincoln Hall are available for individual practice by pianists, vocalists, and instrumentalists who are members of the Cornell community. Of these, eight have grand pianos, six have upright pianos, and two have percussion instruments.

To guarantee practice times, a practice room must be reserved. Practice-room fees for a room with a grand piano are \$80 per semester for up to 12 hours weekly. A \$20 cash deposit must be made for a key to the grand piano practice rooms, which is refunded upon return of the key. Fees for a room with either an upright piano or percussion instruments are \$60 per semester for up to 12 hours weekly, and fees for a room without a piano are \$25 per semester for up to 12 hours weekly. The fee for use of the pipe organs is \$60 per semester for up to 12 hours weekly. All fees are nonrefundable and are not prorated.

Instruments. Six concert grand pianos are available for performances in the various concert halls, plus the following historical keyboard instruments: a modern copy of an 18th-century fortepiano by Johann Andreas Stein, a new fortepiano by Robert McNulty, a Broadwood grand piano from 1827, an 1824 Conrad Graf fortepiano replica, an 1868 Erard grand, one Dowd and one Hubbard harpsichord, and a Challis clavichord. Four distinctive organs are available to qualified individuals for lessons and practice: a small Italian organ (1746) and a two-manual mechanical-action instrument (1972), both in Anabel Taylor Chapel; a three-manual symphonic organ (1941) in Sage Chapel; and an 18th-century German-style chamber organ (2003) in Barnes Hall. In addition, the Music Department owns a limited number of string, wind, and percussion instruments that may be rented by members of the department's ensembles.

Electroacoustic Music Center. The Center comprises five studios each outfitted with state-of-the-art hardware and software for music recording, creation, and experimentation. Macintosh, Windows, and Linux operating systems are represented. A variety of MIDI and OSC (Open Sound Control) devices are available for live and interactive performance interests. Available software includes commercial, open source, and custom-designed in-house applications. Max/MSP, PD(PureData), Steinberg Cubase, Ardour, Reason, Csound, Peak, Audacity, and Abelton Live are represented alongside dozens of modular utilities. Video editing and DVD creation are available using Final Cut Pro and Cinelerra. The primary studio hosts a multichannel hardware/software environment (up to 12 channels) for ambisonic mixing, 5.1 surround mixing and mastering, and "vbat" localization techniques. In addition, the Center operates its own server with space for data backup, website hosting, and remote login.

Digital Music Program Workstations. There are four Power Macintosh workstations available for qualified students. Two are project/entry-level studios that use Digital Performer, SoundDiver, Peak, Reason, and other software packages. The MIDI hardware includes a Proteus 2000, Korg O5R/W, Access Virus b, and an Alesis QS8.1 keyboard controller. The

other two workstations are more advanced. In addition to the software above, they use Final Cut Pro and Pro Tools. The MIDI hardware includes an E-Mu Platinum Sampler, a Novation SuperNova II, and a Kurzweil K2600 (with sampling) keyboard controller. Also included are several plug-in packages.

Introductory Courses

MUSIC 100(1100) Elements of Musical Notation

Fall or spring, weeks 2-5. 1 credit.

Corequisite: any 3-credit music course and permission of instructor. Staff.

This four-week course, given at the beginning of each semester, fulfills the requirement of basic pitch, rhythm, and score-reading skills needed for some introductory courses and 200-level courses with prerequisites.

[MUSIC 101(1311) Popular Music in America: A Historical Survey (also AM ST 105(1131)) # (LA)

Spring. 3 credits. Next offered 2007-2008. S. Pond.]

MUSIC 102(1101) Fundamentals of Music (LA)

Fall. 3 credits. No previous training in music required. M. Hatch.

An introduction to the theory of music from around the world: the structures of melody and rhythm (pulse, meter, scales, modes, texture, timbre, harmony, form) and the influences of audiences, music technologies (including instruments), reasons, and contexts for music making on instrumental and vocal music from classical, folk, traditional, and popular music of Asia, Africa, Europe, and the Americas. Extensive listening and video examples.

MUSIC 103(1301) Introduction to World Music I: Africa and the Americas (also LSP 100[1301], LAT A 103[1030]) @ (CA)

Spring. 3 credits. No previous training in music required. S. Pond.

Exploration of folk, popular, and traditional musical genres of the Western Hemisphere, particularly the African diaspora. Examines both the elements of musical styles and the features of society that influence music. Listening assignments are major components of the course.

[MUSIC 104(1302) Introduction to World Music II: Asia @ (CA)

Spring. 3 credits. No previous training in music required. Next offered 2007-2008. M. Hatch.

An exploration of folk, popular, and traditional musical genres from South, Southeast, and East Asia.]

MUSIC 105(1105) Introduction to Music Theory (LA)

Fall. 3 credits. Recommended: experience in reading music; students may take MUSIC 100 concurrently. J. Webster.

An elementary, self-contained introduction to the theory of Western art music, emphasizing fundamental musical techniques, theoretical concepts, and their application. Intervals, scales, triads; basic concepts of tonality and form; extensive listening to music in various styles; analysis of representative works of Bach, Mozart, Beethoven, and Debussy.

[MUSIC 107(1201) Hildegard to Handel # (LA)]

Fall. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 100. Next offered 2007–2008. N. Zaslaw.]

[MUSIC 108(1202) Mozart to Minimalism # (LA)]

Spring. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 100. N. Zaslaw.

A survey of Western art music in many genres from the second half of the 18th century to the present. Composers whose music is studied include Haydn, Mozart, Beethoven, Schubert, Schumann, Mendelssohn, Berlioz, Chopin, Wagner, Verdi, Liszt, Brahms, Mahler, Debussy, Strauss, Stravinsky, Bartok, Ives, Webern, Messiaen, Copland, Bernstein, Stucky, and Sierra.

Music Theory

Students contemplating the music major are strongly advised to take MUSIC 151, 152, 153, and 154 in the freshman year; in any case MUSIC 152 and 154 must be completed no later than the end of the sophomore year.

[MUSIC 151(2101) Tonal Theory I (LA)]

Fall. 3 credits. Prerequisites: admission by departmental placement exam and concurrent enrollment in or previous credit for MUSIC 153, or equivalent. Intended for students expecting to major in music and other qualified students. D. Yearsley.

Detailed study of the fundamental elements of modal and tonal music: rhythm, scales, intervals, triads; melodic principles and two-part counterpoint; diatonic harmony and four-part voice leading; basic formal structures. Study engages different repertoires, including Western art music as well as non-Western and popular traditions.

[MUSIC 152(2102) Tonal Theory II (LA)]

Spring. 3 credits. Prerequisites: MUSIC 151 and 153 or equivalent; concurrent enrollment in or previous credit for MUSIC 154. Intended for students expecting to major in music and other qualified students. A grade of B- or better in MUSIC 152 is required for admission to music major. K. Taavola.

Continued study of voice leading and harmonic progression, including diatonic modulation; analysis of binary and ternary forms as well as jazz, blues, and pop phrase models.

[MUSIC 153(2103) Musicianship I]

Fall. 2 credits. Pre- or corequisite: MUSIC 151. Intended for students expecting to major in music and other qualified students. D. Yearsley.

Sight singing: diatonic melodies in treble, alto, and bass clefs. Keyboard: scales, triads, seventh chords, short diatonic chord progressions. Dictation: intervals, rhythms; short diatonic melodies; short diatonic chorale phrases. Score reading: two parts using treble, alto, and bass clefs. Musical terms: tempo markings and rhythmic terminology.

[MUSIC 154(2104) Musicianship II]

Spring. 2 credits. Pre- or corequisite: MUSIC 152. Intended for students expecting to major in music and other qualified students. A grade of B- or better in MUSIC 154, and failure in no individual musicianship components of the course, are required for admission to the music major. K. Taavola.

Sight singing: longer melodies in three clefs, including diatonic modulation. Keyboard: diatonic chord progressions and sequences. Dictation: intervals, rhythms; longer melodies; chorale phrases with diatonic modulation. Score reading: three parts using treble, alto, and bass clefs. Transcriptions of pop, jazz, and other genres.

[MUSIC 204(2111) Physics of Musical Sound (also PHYS 204[1204]) (PBS)]

Spring. 3 credits. K. Selby.
For description, see PHYS 204.

[MUSIC 251(3101) Tonal Theory III (LA)]

Fall. 3 credits. Prerequisites: MUSIC 152 and 154 or equivalent. Corequisite: MUSIC 253. K. Taavola.

Continuation of diatonic and introduction to chromatic harmony; species counterpoint; composition in small forms.

[MUSIC 252(3102) Tonal Theory IV (LA)]

Spring. 3 credits. Prerequisites: MUSIC 251 and 253 or equivalent. Corequisite: MUSIC 254. K. Taavola.

Study of and composition in larger forms, including sonata form; systematic study of chromatic harmony, voice-leading, and modulation; composition in chromatic style.

[MUSIC 253(3103) Musicianship III]

Fall. 2 credits. Pre- or corequisite: MUSIC 251. K. Taavola.

Sight singing: melodies with chromaticism in treble, alto, tenor, and bass clefs. Keyboard: diatonic modulation, chromatic chords. Dictation: melodies with modulation; chorale phrases with secondary dominants and other chromatic chords. Score reading: four parts using treble, alto, tenor, and bass clefs. Musical terms: orchestral ranges, terms, clefs, and transpositions.

[MUSIC 254(3104) Musicianship IV]

Spring. 2 credits. Pre- or corequisite: MUSIC 252. K. Taavola.

Sight singing: melodies in four clefs, including modality and chromatic modulation. Keyboard: chromatic sequences, chromatic modulations, improvised modulations employing diatonic pivot chords. Dictation: intervals, rhythms, short melodies, and short, diatonic chorale phrases. Score reading: four parts, including transposing instruments. Musical terms: other terms in French, German, and Italian.

[MUSIC 361(3111) Jazz Improvisation I]

Spring. 2 credits. Prerequisite: MUSIC 151 or permission of instructor. P. Merrill.

An introduction to fundamental jazz theory, technique, and applied skills. Class work and assignments emphasize basic nomenclature, diatonic seventh chords, upper-structures, modes of the major scale, linear style and melodic motive development, feel, cycles, and phrase construction. Performance, composition, analysis, listening, and ear training.

[MUSIC 362(3112) Jazz Improvisation II]

Fall. 2 credits. Prerequisite: MUSIC 361. P. Merrill.

Continuation of jazz theory, technique, and applied skills. Class work and assignments emphasize altered upper-structures and dominants, chords and modes of melodic minor, harmonic minor, substitutions, and advanced rhythmic development. Performance, composition, analysis, transcribing, listening, and ear training.

[MUSIC 365(3115) Jazz Piano]

Spring. 2 credits. Prerequisite: MUSIC 151 or permission of instructor. P. Merrill.
An introduction to jazz keyboard technique, including reading chord symbols, comping, bass line construction, and soloing. This course is intended primarily for jazz instrumentalists with little or no keyboard experience and pianists with little or no jazz experience.

[MUSIC 451(4101) Counterpoint # (LA)]

Spring. 4 credits. Prerequisite: MUSIC 251 or permission of instructor. Next offered 2008–2009. S. Stucky.]

[MUSIC 452(4102) Topics in Music Analysis (also MUSIC 602[6101]) (LA)]

Spring. 4 credits. Prerequisite: MUSIC 251 or permission of instructor. Next offered 2007–2008. K. Taavola.]

[MUSIC 453(4111) Composition (LA)]

Fall. 4 credits. Prerequisite: MUSIC 152 or permission of instructor. R. Sierra.
Study of music composition through the use of traditional forms such as variation and sonata. The student is required to write original pieces for solo and chamber ensembles.

[MUSIC 454(4112) Composition in Recent Styles (LA)]

Spring. 4 credits. Prerequisite: MUSIC 251 or permission of instructor. R. Sierra.
Through analysis, repertoire from the 20th and 21st centuries furnishes models for composing new works. Styles and techniques are drawn from composers such as Debussy, Bartok, Schoenberg, Copland, and Adams. Recommended (though not required) before taking MUSIC 454; when both 453 and 454 are offered, they form a full-year sequence.

[MUSIC 455(4121) Conducting (LA)]

Fall. 4 credits. Prerequisite: MUSIC 251 or permission of instructor. Next offered 2007–2008. C. Kim.

Covers fundamentals of score reading, score analysis, rehearsal procedures, and conducting technique; instrumental and choral contexts.]

[MUSIC 456(4122) Orchestration (LA)]

Spring. 4 credits. Prerequisite: MUSIC 251 or permission of instructor. Next offered 2008–2009. R. Sierra.

Orchestration based on 19th- and 20th-century models.]

[MUSIC 457(4103) 20th-Century Musical Languages (LA)]

Fall. 4 credits. Prerequisites: MUSIC 252 and 254. Next offered 2007–2008. K. Taavola.]

[MUSIC 458(4123) Jazz Arranging (LA)]

Fall. 4 credits. Prerequisite: MUSIC 358 or permission of instructor. Next offered 2007–2008. P. Merrill.

A survey of jazz arranging techniques for the big band.]

Music in History and Culture**[MUSIC 221(1312) History of Rock Music (also AM ST 223[1312]) (LA)]**

Spring. 3 credits. No previous training in music required. J. Peraino.

This course examines the development and cultural significance of rock music from its origins in blues, gospel, and Tin Pan Alley up to present-day genres of alternative rock and hip hop.

[MUSIC 222(1313) A Survey of Jazz (also AM ST 222(1313)) (LA)

Fall. 3 credits. Next offered 2007-2008.
S. Pond.

This course addresses jazz from two perspectives: the various sounds of jazz, as well as the historical streams—musical and cultural—that have contributed to its development.]

[MUSIC 245(1341) Gamelan in Indonesian History and Cultures (also ASIAN 245[2245], VISST 244[2744]) @ (LA)

Fall or spring. 3 credits. Prerequisite: permission of instructor. No previous knowledge of musical notation or performance experience necessary. Fall, staff; spring, M. Hatch.

An introduction to Indonesia through its art. Elementary techniques of performance on the Indonesian *gamelan*; a general introduction to Indonesian history and cultures, and the sociocultural contexts for the arts there. Several short papers and one longer research report are required. Instruction by visiting Balinese musician.

[MUSIC 261(2221) Bach and Handel # (LA)

Fall. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. Next offered 2007-2008. Staff.]

[MUSIC 262(2222) Haydn and Mozart # (LA)

Fall. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. J. Webster.

A survey of the lives, works, and historical roles of Joseph Haydn and Wolfgang Amadeus Mozart. Attention is also given to developments in musical style 1750-1800, and to intellectual currents such as the Enlightenment, the aesthetics of music, and changing concepts of genius.

[MUSIC 263(2223) Beethoven # (LA)

Spring. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. Next offered 2008-2009. J. Webster.]

[MUSIC 264(2231) Musical Romantics # (LA)

Spring. 3 credits. Prerequisite: ability to read music or concurrent enrollment in MUSIC 100. Next offered 2007-2008. D. Rosen.]

[MUSIC 272(2245) Words and Music (also GERST 342[3420]) # (LA)

Spring. 4 credits. Next offered 2008-2009. A. Groos.

For description, see GERST 342.]

[MUSIC 274(2241) Opera (also THETR 273[2730]) # (LA)

Spring. 3 credits. R. Harris-Warrick.

An introduction to opera through the examination of six major works of the operatic repertory by such composers as Mozart, Donizetti, Verdi, Wagner, Bizet, Puccini, and Britten, with attention to the interaction of the words, music, and visual elements. With two of the operas studied, we will trace the development of the opera libretto from the play or short story upon which it is based. We will compare and critique some of the different productions available on video and DVD recordings and, for Donizetti's *Lucia di Lammermoor*, in live performance.

[MUSIC 276(2242) The Orchestra and Its Music # (LA)

Spring. 3 credits. Prerequisite: any 3-credit music course or permission of instructor. Next offered 2008-2009. N. Zaslav.

The music of, and the social structures supporting, large instrumental ensembles in the Western world from the 16th century to the present.]

[MUSIC 277(2243) The Piano and Its Music (LA)

Fall or spring. 3 credits. Prerequisite: one semester of music theory (MUSIC 105, equivalent course, or equivalent experience) or permission of instructors. Next offered 2008-2009. Staff.]

[MUSIC 407(4511) Early Dance (also DANCE 407[4399])

Fall. 1 credit. Next offered 2007-2008. R. Harris-Warrick.]

[MUSIC 408(4512) Music and Choreography (also DANCE 324[3530]) (LA)

Spring. 3 credits. Attendance at dance concerts and music concerts required. A. Fogelsanger.

For description, see DANCE 324.

Music History Courses for Majors and Qualified Nonmajors**[MUSIC 207(3201) Survey of Western Music I # (LA)**

Fall. 3 credits. Pre- or corequisite: MUSIC 151/153 or permission of instructor. A. Richards.

A survey of Western music and its social contexts from the beginning of notation (circa 900) to 1700. Topics include sacred chant, secular song, polyphony, madrigals, early opera, and the development of independent instrumental music. The course emphasizes listening and comprehension of genres and styles, and is intended for music majors and qualified nonmajors.

[MUSIC 208(3202) Survey of Western Music II # (LA)

Spring. 3 credits. Pre- or corequisite: MUSIC 152/154 or permission of instructor. A. Richards.

A survey of Western music and its social contexts from 1700 to the present. Topics include the decline of church music, the rise of public concerts and opera, the evolution of the orchestra, and modernism in the 20th century. The course, which emphasizes listening and comprehension of genres and styles, is intended for music majors and qualified nonmajors.

[MUSIC 300(3211) Proseminar in Musicology (LA)

Spring. 4 credits. D. Yearsley.

Introduction to methods in musicology, including historiography, criticism, approaches to vernacular and non-western musics, and gender studies.

[MUSIC 374(3222) Opera and Culture (also GERST 374[3740], ITALA 374) # (LA)

Spring. 4 credits. Prerequisite: any 3-credit music course or proficiency in German or Italian. Next offered 2008-2009. A. Groos.

For description, see GERST 374.]

[MUSIC 381(3231) Topics in Western Art Music to 1750 #

Fall. 4 credits. Prerequisite: MUSIC 152 or permission of instructor. Next offered 2007-2008. Staff.]

[MUSIC 382(3232) Topics in Western Art Music 1750-Present

Spring. 4 credits. Prerequisite: MUSIC 152 or permission of instructor. Next offered 2007-2008. Staff.]

[MUSIC 386(3301) Topics in Popular Music and Jazz

Spring. 4 credits. Prerequisite: MUSIC 152/154 or permission of instructor. S. Pond.

This course addresses various topics, centering on the post-World War II years to ca. 1970. Topic for 2007: Post-bebop jazz. Using the "bebop revolution" as a beginning point, we examine style movements (including cubop, cool and West Coast jazz, avant-garde jazz, modalism, and fusion) in light of changing aesthetics, sociopolitical movements, and intersections with other musics of the time. Reading (historical, biographical, and critical) and listening assignments are major components of the course. There are no midterm or final exams; however, quizzes and research papers are required.

[MUSIC 390(3242) Culture of the Renaissance II (also COM L 362[3620], ENGL 325[3250], HIST 364[3640], ART H 351[3420], FRLIT 362[3620]) # (CA)

Fall. 4 credits. Next offered 2007-2008. K. Long and W. J. Kennedy.]

[MUSIC 398-399(3901) Independent Study in Music History

398, fall; 399, spring. 4 credits. Prerequisite: MUSIC 152 and permission of instructor. Staff.

Advanced study of various topics in music history. Students enrolling in MUSIC 398-399 participate in, but do not register for, an approved 200-level music history course and, in addition, pursue independent research and writing projects.

See also "Independent Study and Honors."

[MUSIC 400(4211) Senior Seminar

Fall. 4 credits. J. Peraino.

Topic: Critical approaches to popular music. This course introduces and compares various methods of studying popular music, including historical, analytical, sociological, ethical, and cultural. The focus will be on styles and performers within the genres of rock 'n' roll and rap.

[MUSIC 410(4222) Music and Monstrous Imaginings # (LA)

Fall. 4 credits. Next offered 2008-2009. A. Richards.]

[MUSIC 411(2244) The Organ in Western Culture # (LA)

Fall. 4 credits. Prerequisite: permission of instructor. Next offered 2007-2008. A. Richards and D. Yearsley.]

[MUSIC 418(4181) Psychology of Music (also PSYCH 418[4180]) (KCM)

Spring. 3 or 4 credits, depending on whether student elects to do an independent project. C. L. Krumhansl.

For description, see PSYCH 418.

[MUSIC 492(4231) Music and Queer Identity (CA)]

Spring. 4 credits. Next offered 2008–2009.
J. Peraino.]

[MUSIC 493(4232) Women and Music (also FGSS 496(4960)) (CA)]

Spring. 4 credits. Next offered 2007–2008.
J. Peraino.]

Digital Music and New Media**MUSIC 120(1421) Introduction to Digital Music (LA)**

Fall. 3 credits. Limited enrollment.
Prerequisite: permission of instructor.
Recommended: ability to read music.
K. Ernste.

A composition-based introduction to computer hardware and software for digital sound and digital media. Fundamentals of MIDI sequencing and other techniques for producing electroacoustic music. Each student creates several short compositions.

MUSIC 165(1465) Computing in the Arts (also COM S/CIS/ENGRI 165(1610))

Spring. 3 credits. G. Bailey.
For description, see COM S 165.

MUSIC 220(2421) Computers in Music Performance (LA)

Spring. 3 credits. Limited enrollment.
Prerequisite: permission of instructor.
K. Ernste.

A course in live performance and real-time, interactive sound manipulation techniques both in concert and over networks. Students will work individually or in small groups toward realizing short pieces that utilize tools and ideas from the course. MUSIC 220 is appropriate as a continuation for those who have taken MUSIC 120 but is open to others by permission.

[MUSIC 320(3421) Scoring the Moving Image Using Digital Technology (LA)]

Spring. 4 credits. Prerequisite: MUSIC 120 with grade of B or higher and MUSIC 251.
Next offered 2007–2008. K. Ernste.]

MUSIC 355(3431) Sound Design and Digital Audio (also THETR/DANCE 368(3680)) (LA)

Fall. 4 credits. W. Cross.
For description, see THETR 368.

MUSIC 356(3441) Digital Performance (also THETR 369(3690)) (LA)

Spring. 4 credits. W. Cross.
For description, see THETR 369.

Independent Study and Honors**MUSIC 301–302(4901) Independent Study in Music**

301, fall; 302, spring. Credit TBA.
Prerequisite: departmental approval;
experience in proposed area of study.
Staff.

See also MUSIC 398–399 under “Music in History and Culture.”

MUSIC 401–402(4911) Honors in Music

401, fall; 402, spring. 8 credits per year.
Prerequisite: senior honors candidates.
Staff.

See “Honors” under “The Major” at the beginning of the MUSIC listings.

Musical Instruction

Cornell faculty members offer individual instruction in voice, organ, harpsichord, piano and fortepiano, violin, viola, cello, and some brass and woodwind instruments to those students advanced enough to do college-level work in these instruments. Lessons are available by audition only. They may be taken either without credit (MUSIC 321) or with credit (MUSIC 322 or 323). All students studying with Cornell faculty members must enroll in MUSIC 321, 322, or 323. Other instruments may sometimes be studied for credit outside Cornell, but also by audition only (see MUSIC 321–323, Secs 9 and 10).

Lessons for beginners. The Department of Music can recommend outside teachers for those who wish to begin studying voice or an instrument. No credit is available for beginning instruction.

Auditions. Auditions are held at the beginning of each semester for lessons for advanced students. Contact the music department office in 101 Lincoln Hall for information.

Earning academic credit for lessons. For every 4 credits earned in MUSIC 322, the student must have earned, or currently be earning, at least 3 credits in another music course (excluding MUSIC 322, 323, 331–348, or 421–448). These 3 credits must be earned before, or simultaneously with, the first 2 credits in 322; they cannot be applied retroactively. Only music courses taught at Cornell (or approved transfer courses from other colleges or universities) may be used to satisfy this requirement.

Fees. The fee for a one-hour lesson (or two half-hour lessons) weekly, with or without credit, is \$480 per semester. For a one-half hour lesson weekly (without credit only), the fee is \$240. All fees are nonrefundable once lessons begin, even if the course is subsequently dropped.

Lessons taken outside Cornell. Under certain conditions, advanced students may earn credit for lessons taken outside Cornell. An audition is required, and no credit can be granted for beginning instruction. For further information, read the description of MUSIC 322–323, Secs 9 and 10, and contact the Music Department office.

Scholarships. Music majors receive a scholarship of up to \$480 per semester. Any member of department-sponsored ensembles may, with the permission of the director of the ensemble, receive a partial scholarship to help defray the cost of the lessons. All scholarships are intended only for lessons in the student's primary performing medium. Scholarship forms, available in the music department office, are to be returned to the office within the first three weeks of classes.

MUSIC 321–322–323(3501–3502–4501) Individual Instruction

Prerequisite: advanced students only; may register after successful audition with instructor, or, if student needs to study outside Cornell, with appropriate faculty sponsor. Students should contact instructor or music department office for audition information. Students may register for these courses in successive semesters or years.

MUSIC 321(3501)

Fall or spring. 0 credits each semester.
See section listing below for instructors.
Students who pass a successful audition to

study with Cornell faculty, but either wish to take only a half-hour lesson per week or cannot receive credit for lessons, must enroll in MUSIC 321. S-U grades only.

MUSIC 322(3502)

Fall or spring. 2 credits each semester.
See section listing below for instructors. Students earn 2 credits each semester for one-hour lesson (or two half-hour lessons) per week, accompanied by appropriate practice schedule. Credit may be earned only in conjunction with academic music courses; see “Earning Academic Credit for Lessons,” above. Letter grades only.

MUSIC 323(4501)

Fall or spring. 4 credits each semester. See section listing below for instructors. Open only to juniors and seniors majoring in music and graduate students in music. The section numbers listed below apply to MUSIC 321, 322, or 323, depending on the instrument studied.

Sec 01 Voice. J. Kellock.

Sec 02 Organ. A. Richards.

Sec 03 Piano. X. Bjerken and Staff.

Sec 04 Harpsichord. A. Richards and D. Yearsley.

Sec 05 Violin or Viola. V. Gellev.

Sec 06 Cello. J. Haines-Eitzen.

Sec 07 Brass. Staff.

Sec 08 Woodwinds. Staff.

Sec 09/Sec 10 Individual Instruction Outside Cornell.

All the standard orchestral and band instruments, keyboard instruments, guitar, and voice may, under certain conditions, be studied for credit with outside teachers. This course is available primarily for the study of instruments not taught at Cornell and when there is limited enrollment in MUSIC 321 and 322. Prior approval and audition by a member of the faculty in the department are required, and credit may be earned only as described under “Earning academic credit for lessons,” above. Additionally, a departmental petition must be completed by the end of the third week of classes. For information and a list of approved teachers, consult the department office, 101 Lincoln Hall.

Musical Organizations and Ensembles

Students may participate in musical organizations and ensembles throughout the year. Permission of the instructor is required, and admission is by audition only (usually at the beginning of each semester), except that the Sage Chapel Choir and the Cornell Gamelan Ensemble are open to all students without prior audition. Registration is permitted in two of these courses simultaneously and students may register in successive years, but no student may earn more than 8 credits in these courses. Membership in these musical organizations and ensembles is also open to qualified students who wish to participate without earning credit.

MUSIC 331–332(3601) Sage Chapel Choir

331, fall; 332, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester. No audition required. R. Riley.
Open to all students and members of the university. Varied and demanding repertoire. The Sage Chapel Choir sings regularly in the

Sunday service of worship, which is broadcast on 870 WHCU-AM radio, and on special occasions throughout the year.

MUSIC 333-334(3602) Chorus

333, fall; 334, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. S. Tucker.

A treble-voice chorus specializing in music for women's voices and in mixed-voice repertory.

MUSIC 335-336(3603) Glee Club

335, fall; 336, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. S. Tucker.

A male-voice chorus specializing in music for men's voices and in mixed-voice repertory.

MUSIC 338(3631) Wind Symphony

Fall and spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

C. Johnston Turner and J. Miller.

MUSIC 339-340(3615) Jazz Ensemble II

339, fall; 340, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary big band literature. Rehearsal once a week with one to two performances a semester.

MUSIC 342(3633) Wind Ensemble

Fall and spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

C. Johnston Turner.

MUSIC 343-344(3621) Symphony Orchestra

343, fall; 344, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. C. Kim.

Study and performance of a broad repertoire of orchestral works from Beethoven to the present.

MUSIC 345-346(2541) Advanced Instruction—Gamelan

345, fall; 346, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester. Limited enrollment. Prerequisite: permission of instructor. Fall, staff; spring, M. Hatch.

Concentrated instruction for students in advanced techniques of performance on the Indonesian *gamelan*.

[MUSIC 348(3611) World Music Choir

Spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester. Prerequisite: permission of instructor. Next offered 2007-2008. S. Tucker.

A mixed-voice chorus whose repertoire is drawn from Africa, Central America, South America, the Caribbean, Eastern Europe, and Asia. Music reading skills are not necessary, but a good ear is essential.)

MUSIC 421-422(4621) Chamber Orchestra

421, fall; 422, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. C. Kim.

Study and performance of chamber orchestra works from the baroque period to the present.

MUSIC 423-424(4616) Jazz Combos

423, fall; 424, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary small-group jazz.

MUSIC 431-432(3614) Middle Eastern Music Ensemble (also NES 447-448[4947-4948])

431, fall; 432, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor.

M. Hatch.

Performance of diverse musical traditions from the Middle East. Instruction in individual instruments (oud, ney, kanoun, and percussion) and group rehearsals, culminating in one or two performances per semester. Songs are taught in several languages, with the assistance of local language and diction teachers.

MUSIC 433-434(3613) Steel Band

433, fall; 434, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: background in music and permission of instructor. J. Armstrong.

This performance group specializes in traditional Caribbean steel drum repertoire and beyond.

MUSIC 435-436(3612) World Drum and Dance Ensemble

435, fall; 436, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor.

J. Armstrong.

This group specializes in traditional music from West Africa and the Caribbean. Drumming techniques, song, and dance styles are incorporated into each semester's activities. No previous percussion experience is necessary.

MUSIC 437-438(4631) Chamber Winds

437, fall; 438, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Corequisites: enrollment in one course drawn from MUSIC 333-344, 439, 440, and permission of instructor. Coordinator: C. Johnston Turner.

Flexible instrumentation ensembles perform original woodwind, brass, and percussion music. The ensembles participate in Wind Symphony and Wind Ensemble concerts in addition to several chamber concerts throughout the year.

MUSIC 439-440(4615) Jazz Ensemble I

439, fall; 440, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. P. Merrill.

Study and performance of classic and contemporary big band literature. Rehearsals twice a week with two to four performances per semester.

MUSIC 441-442(4651) Chamber Music Ensembles

441, fall; 442, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition.

Coordinator: M. Yampolsky.

Study and performance of chamber music works from duos to octets, for pianists, string, and wind players.

MUSIC 443-444(3604) Chorale

443, fall; 444, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. J. Miller.

Study and performance of selected choral music for mixed voices.

MUSIC 445-446(4641) Gamelan Ensemble

445, fall; 446, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: permission of instructor. Fall, staff; spring, M. Hatch.

Advanced performance on the Indonesian *gamelan*. Tape recordings of *gamelan* and elementary number notation are provided. Some instruction by visiting Balinese artist.

MUSIC 447-448(4601) Chamber Singers

447, fall; 448, spring. Either 0 credits, S-U, or 1 credit, letter grade, each semester.

Prerequisite: successful audition. Staff.

A mixed-voice chamber choir specializing in Renaissance and 20th-century music.

Graduate Courses

Open to qualified undergraduates by permission of instructor.

MUSIC 601(6201) Introduction to Bibliography and Research

Fall. 4 credits. B. Boettcher.

This course explores the nature of the discipline and introduces the many types of bibliographic tools, both printed and electronic, needed to pursue research in music.

[MUSIC 602(6101) Analytical Technique (also MUSIC 452[4102])

Spring. 4 credits. Next offered 2007-2008. K. Taavola.]

[MUSIC 603(6202) Editorial Practice

Spring. 4 credits. Next offered 2008-2009. Staff.]

MUSIC 604(6301) Introduction to Ethnomusicology

Spring. 4 credits. Also open to graduate students in anthropology, linguistics, psychology, sociology, Africana, Asian Studies, and other cognate fields by permission of instructor. M. Hatch.

This course surveys a spectrum of issues central to the field, including but not limited to issues of identity and representation, methods of musical and cultural analysis, area studies, applied ethnomusicology, and intersections with other fields in the humanities and social sciences.

MUSIC 620(6420) Techniques for Computer Music

Fall. 4 credits. Prerequisite: permission of instructor. K. Ernste.

Intended principally for doctoral students in music composition but open to others by permission. The course presents a practical overview of both classical and state-of-the-art techniques for computer music including digital synthesis, signal processing and sound manipulation, analysis and resynthesis, spatialization, and real-time and/or interactive applications. Students will produce several short studio projects as well as one larger piece to be presented in a final concert.

[MUSIC 653(7101) Topics in Tonal Theory and Analysis

Spring. 4 credits. Next offered 2008-2009. J. Webster.]

[MUSIC 654(7102) Topics in Post-Tonal Theory and Analysis

Spring. 4 credits. Next offered 2007-2008. K. Taavola.]

MUSIC 656(7121) Advanced Orchestral Technique

Fall. 4 credits. S. Stucky.

Intensive analysis of orchestral scores by such composers as Debussy, Ravel, Stravinsky, Dutilleux, Boulez, Lutoslawski, Berio, Takemitsu, Druckman, Knussen, Benjamin, Adams, Saariaho, and Lindberg, with an emphasis on modern instrumental techniques, gestures, and textures. Composition exercises aimed at harnessing these discoveries for the students' own work. Designed for doctoral candidates in composition; others admitted by permission only.

MUSIC 657-658(7111) Composition

657, fall; 658, spring. 4 credits each semester. R. Sierra and S. Stucky.

MUSIC 659(6421) Electroacoustic Composition

Spring. 4 credits. Prerequisite: permission of instructor. K. Ernste.

Intended principally for doctoral students in music composition but open to others by permission. Depending on students' backgrounds and interests, the course may include an introduction to electroacoustic composing, an emphasis on aesthetic issues associated with the field, interactivity and real-time performance, software instrument design, performance controllers, or other topics.

[MUSIC 677(7221) Mozart: His Life, Works, and Times

Fall. 4 credits. Next offered 2007–2008. N. Zaslaw.]

[MUSIC 680(7301) Topics in Ethnomusicology

Spring. 4 credits. Also open to graduate students in anthropology, linguistics, psychology, sociology, Africana Studies, Asian Studies, and other cognate fields by permission of instructor. Next offered 2007–2008. S. Pond.]

[MUSIC 681(7201) Seminar in Medieval Music

Fall. 4 credits. Next offered 2007–2008. J. Peraino.]

[MUSIC 683(7231) Music and Postmodern Critical Theory

Fall. 4 credits. Next offered 2008–2009. J. Peraino.]

[MUSIC 684(7202) Seminar in Renaissance Music

Fall. 4 credits. Next offered 2008–2009. R. Harris-Warrick.]

[MUSIC 686(7203) Seminar in Baroque Music

Spring. 4 credits. Next offered 2007–2008. D. Yearsley.]

MUSIC 688(7204) Seminar in Classical Music

Spring. 4 credits. J. Webster. Topic: Haydn.

MUSIC 689(7205) Seminar in Music of the Romantic Era

Spring. 4 credits. A. Gross and D. Rosen. Topic: The operas of Puccini.

[MUSIC 690(7206) Seminar in Music of the 20th Century

Fall and spring. 4 credits. Next offered *2007–2008. Staff.]

MUSIC 691-692(7501) Historical Performance

691, fall; 692, spring. 4 credits each semester. Prerequisite: permission of instructor. M. Bilson.

Lessons on the major instrument with supplementary study and research on related subjects.

[MUSIC 693(7211) Seminar in Performance Practice

Fall. 4 credits. Next offered 2008–2009. N. Zaslaw.]

MUSIC 695(7311) Gender, Sexuality, and Glam Rock (also FGSS 695[6950])

Fall. 4 credits. J. Peraino.

This course will examine the history and legacy of glam rock, with a focus on the use of music, fashion, and performance as a means of exploring non-normative gender and sexual identities. Key artists and groups include the Velvet Underground, Marc Bolan, David Bowie, Roxy Music, Queen, Iggy pop, and the New York Dolls. Cinematic treatments of glam rock, such as Velvet Goldmine and Hedwig and the Angry Inch, will also be considered. Readings will be drawn from cultural, gender and sexuality studies as well as musicology.

MUSIC 697-698(7901) Independent Study and Research

697, fall; 698, spring. Credit TBA. Staff.

MUSIC 785(7103) History of Music Theory

Fall. 4 credits. K. Taavola.

Issues and problems in the history of music theory; topics vary from year to year. Topic for 2006: Esoteric French and German theory in the 19th and 20th centuries.

[MUSIC 787(7232) History and Criticism

Spring. 4 credits. Next offered 2008–2009. A. Richards.]

MUSIC 901-902(9901) Thesis Research

901, fall; 902, spring. Up to 6 credits each semester. TBA. S-U grades only.

Limited to doctoral students in music who have passed the Admission to Candidacy exam.

NEAR EASTERN STUDIES

K. Haines-Eitzen, chair, R. Brann (director of graduate studies), H. Elaquad, I. Gocheleishvili, C. Monroe, L. Monroe, D. I. Owen (director of Program of Jewish Studies); D. S. Powers, N. Scharf, S. Shoer, D. Starr (director of undergraduate studies), S. M. Toorawa, M. Younes, J. Zorn. Joint faculty: M. Bernal (emeritus), G. Holst-Warhaft, C. Robinson

The Department

The Department of Near Eastern Studies (409 White Hall, 255-6275) offers courses in Near Eastern civilization including archaeology, history, religions, languages, and literatures. These course offerings treat the Near East from the dawn of history to the present and emphasize methods of historical, cultural, and literary analysis. Students are encouraged to take an interdisciplinary approach to the religions and cultures of the region and their articulation during antique, late antique, medieval, and modern times. For more information, please visit www.arts.cornell.edu/nese/.

Distribution Requirements

Any two Near Eastern Studies history or archaeology courses at the 200, 300, or 400 level that form a reasonable sequence or combination satisfy the distribution requirement in the social sciences/history. Any two Near Eastern Studies civilization or literature courses at the 200, 300, or 400 level that form a reasonable sequence or combination satisfy the distribution requirement in the humanities. NES 197 or 251 plus any other Near Eastern Studies course will constitute a sequence to fulfill the distribution requirement in either social sciences/history or humanities, depending on the second course used in combination with 197 or 251. All 200- or 300-level language courses may fulfill the humanities requirement.

The Major

A major in Near Eastern Studies offers students the opportunity to explore the languages, literatures, cultures, religions, and history of the Near East/Middle East from antiquity to the modern day. The major is designed both to acquaint students broadly with the region and its cultures as well as to study a particular subfield in depth.

Prerequisites

- The applicant for admission to the major in Near Eastern Studies must have completed at least two Near Eastern Studies content courses, one of which can be a language course. Students are strongly encouraged to enroll in language courses and/or NES 251 or 254 either before signing into the major or early on in their major.
- Prospective majors must meet with the director of undergraduate studies before submitting a major application.
- To qualify as a major, a cumulative grade average of C or better is required.

Major Requirements

For students graduating in the Classes of 2006 or earlier, consult the department. The precise sequence and combination of courses chosen to fulfill the major is selected in consultation with the student's advisor. All majors must satisfy the following requirements (no course may be used to satisfy two requirements; S-U option not permitted):

1. Two years of one Near Eastern language or, in exceptional cases, one year of two Near Eastern languages
2. Nine 3- or 4-credit NES courses, which must include the following:
 - a. NES 251 Judaism, Christianity, and Islam or NES 254 Introduction to Near Eastern Civilizations
 - b. NES 460 Junior/Senior Proseminar: Theory and Method in Near Eastern Studies
 - c. Seven additional courses, of which
 - i. three must fulfill temporal breadth, defined as: one course whose chronological parameters fall within the period 3000 BCE to 600 CE, one course whose chronological parameters fall within the period 600 CE to 1800 CE, and one course whose chronological parameters fall between 1800 CE and the

present. The following are examples (a complete list may be obtained in the department office):

3000 BCE to 600 CE

- NES 223 Introduction to the Hebrew Bible
- NES 229 Introduction to the New Testament
- NES 244 Introduction to Ancient Judaism
- NES 261 Ancient Seafaring
- NES 266 Jerusalem through the Ages
- NES 320 Women in the Hebrew Bible
- NES 360 Ancient Iraq
- NES 323 Reinventing Biblical Narrative
- NES 394 Gender, Sexuality, and the Body in Early Christianity

600 CE to 1800 CE

- NES 214 Qur'an and Commentary
- NES 234 Muslims and Jews in Confluence and Conflict
- NES 256 Introduction to the Qur'an
- NES 273 History of the Middle East: 13th to 18th Centuries
- NES 339 Islamic Spain
- NES 351 Law, Society, and Culture in the Middle East
- NES 418 Seminar in Islamic History

1800 CE to the present

- NES 235 Jews and Arabs in Contact and Conflict: The Modern Period
- NES 274 History of the Modern Middle East: 19th to 20th Centuries
- NES 319 Crime and Conflict in the Modern Arabic Novel
- NES 385 Middle Eastern Cities
- NES 393 History of Jews and Christians in the Modern Middle East
- NES 397 History of the Israeli-Palestinian Conflict
- NES 493 Cosmopolitan Alexandria

- ii. A maximum of three of these seven courses can be at the 200 level; a minimum of four must be at the 300 level or above.
- iii. One of the 300-level or above courses must be a research seminar (courses are designated with ®). The following are examples (a complete list can be found in the department office):
 - 339 Islamic Spain: Culture and Society @ # (CA) ®
 - 385 Middle Eastern Cities: History, Society, and Culture @ # (HA) ®
 - 394 Gender, Sexuality, and the Body in Early Christianity @ # (CA) ®
 - 427 New York, Paris, Baghdad: Poetry of the City ®
 - 457 Formation of Islamic Law @ # (HA) ®
- iv. Note: a maximum of two independent studies can be applied to the major; a maximum of two non-cross-listed courses may be applied to the major; a maximum of two courses may receive credit for more than one major; a maximum of

15 credits of relevant, departmentally approved course work taken overseas or at another university may be applied to the major.

For students graduating in the classes of 2006 or earlier, consult the department.

Honors. Candidates for the degree of Bachelor of Arts with honors in Near Eastern Studies must fulfill the requirements of the appropriate major study and enroll in the honors course, NES 499, in the fall and spring semesters of their senior year. For admission to the honors program, candidates must have a cumulative average of B+ or better and have demonstrated superior performance overall in Near Eastern Studies courses. After consulting their major advisor, candidates should submit an outline of their proposed honors work to the department **during the second semester of their junior year**. The Near Eastern Studies main office has more specific guidelines for the honors thesis.

Study abroad. Near Eastern Studies majors may choose to study in the Near East during their junior year. There are various academic programs in the countries of the Near East that are recognized by the Department of Near Eastern Studies and that allow for the transfer of credit. Archaeological fieldwork on Cornell-sponsored projects in the Near East may also qualify for course credit.

First-Year Writing Seminars

For descriptions, consult the John S. Knight Institute brochure for times, instructors, and descriptions.

Language Courses

Arabic

NES 111-112(1201-1202) Elementary Arabic I and II (also AS&RC 111/112[1104/1105])

111, fall; 112, spring. 4 credits each semester. Limited to 18 students per section. Prerequisite: for NES 112, NES 111 or permission of instructor. M. Younes and staff.

Provides a thorough grounding in all language skills: listening, speaking, reading, and writing. It starts with spoken Arabic and gradually integrates Modern Standard Arabic in the form of listening and reading texts. Emphasis is on learning the language through using it in meaningful contexts. Students who successfully complete the two-semester sequence are able to (1) understand and actively participate in simple conversations involving basic practical and social situations (e.g., introductions, greetings, school, home and family, work, simple instructions); (2) read Arabic material of limited complexity and variety (e.g., simple narrative and descriptive texts, directions); (3) write notes and short letters describing an event or a personal experience. An important objective of the course is to familiarize students with basic facts about the geography, history, and culture of the Arab world.

NES 113-210(1203-2200) Intermediate Arabic I and II (also AS&RC 113/212[1106/2101])

113, fall; 210, spring. 4 credits each semester. *NES 210 @ satisfies Option 1.* Limited to 18 students per section. Prerequisites: for NES 113, one year of Arabic or permission of instructor; for NES 210, NES 113 or permission of instructor. Letter grades recommended. M. Younes and staff.

Sequel to NES 111-112. Continued development of the four language skills through extensive use of graded materials on a wide variety of topics. Increased attention is given to developing native-like pronunciation and grammatical accuracy, but the main focus is on developing communication skills. The student who successfully completes 210 is able to: (1) understand and express himself or herself in Arabic in situations beyond the basic needs; (2) read and comprehend written Arabic of average difficulty; (3) write a letter, a summary of a report, or a reading selection. An appreciation of Arabic literature and culture is sought through the use of authentic materials.

NES 133-134(1211-1212) Introduction to Qur'anic and Classical Arabic (also RELST 133-134[1211-1212]) (LA)

133, fall, M. Younes; 134, spring, D. Powers. 4 credits each semester.

This course is designed for students who are interested in reading the Qur'an and other texts in Classical Arabic. By the end of the semester, students will have mastered many of the common grammatical structures and will have a good working vocabulary. This course, and its follow-up in the Spring, provide a firm foundation on which to build an advanced study of Classical Arabic. No prior knowledge of Arabic is required.

NES 214(2212) Qur'an and Commentary (also RELST 214[2212]) @ (LA)

Spring. 3 credits. Prerequisite: for NES 214, NES 113-210. D. Powers.

Advanced study of classical Arabic through a close reading of selected chapters of the Qur'an, together with the Qur'anic commentary (tafsir) and other relevant literature. Special attention is given to grammar, syntax, and lexicography.

NES 311-312(3201-3202) Advanced Intermediate Arabic I and II (also AS&RC 308-312) @

311 fall; 312 spring. 4 credits each semester. *Satisfies Option 1.* Limited to 15 students. Prerequisite: for NES 311, NES 210 or permission of instructor; for NES 312, NES 311 or permission of instructor. Letter grades recommended. M. Younes and staff.

Introduces students to authentic, unedited Arabic language materials ranging from poems, short stories, and plays to newspaper articles dealing with social, political, and cultural issues. Emphasis is on developing fluency in oral expression through discussion of issues presented in the reading selections. There is more focus on the development of native-like pronunciation and accurate use of grammatical structures than on elementary and intermediate Arabic. A primary objective of the course is the development of writing skill through free composition exercises in topics of interest to individual students.

NES 416(4206) Structure of the Arabic Language (also LING 416[4416]) (KCM)

Spring. 4 credits. Limited to 15 students.

Prerequisite: one year of Arabic or a linguistic background. M. Younes.

Consists of a brief history of Arabic and its place in the Semitic language family, the sociolinguistic situation in the Arab world (diglossia), Arabic phonology (sounds, emphasis, syllable structure, and related processes), morphology (verb forms and derivational patterns), and syntax (basic sentence structures, cases, and moods).

Hebrew**NES 101-102(1101-1102) Elementary Modern Hebrew I and II (also JWST 101-102[1101-1102])**

101, fall; 102, spring. 4 credits each semester. Limited to 18 students per section. Prerequisite: for NES 102, NES 101 with grade of C- or better or permission of instructor. Letter grades only. S. Shoer.

Intended for beginners. Provides a thorough grounding in reading, writing, grammar, oral comprehension, and speaking. Students who complete the course are able to function in basic situations in a Hebrew-speaking environment.

NES 103(1103) Elementary Modern Hebrew III (also JWST 103[1103])

Fall. 4 credits each semester. Limited to 15 students per section. Prerequisite: NES 102 with grade of C- or better or permission of instructor. Letter grades recommended. N. Scharf.

Sequel to NES 101-102. Continued development of reading, writing, grammar, oral comprehension, and speaking skills.

NES 200(2100) Intermediate Modern Hebrew (also JWST 200[2100]) @

Spring. 4 credits. *Satisfies Option 1*. Prerequisite: NES 103 with grade equivalent to C- or above or permission of instructor. Letter grades recommended. N. Scharf.

Introduces Hebrew literature and Israeli culture through the use of texts and audiovisual materials.

NES 301(3101) Advanced Intermediate Modern Hebrew (also JWST 301[3101]) @

Fall. 4 credits. *Satisfies Option 1*. Limited to 15 students. Prerequisite: NES 200 with grade of C- or above or permission of instructor. This sequence may be used to fulfill humanities distribution requirement in literature. Letter grades recommended. N. Scharf.

Advanced study of the Hebrew language both orally and through the analysis of mostly unedited texts of social, political, and cultural relevance, with less emphasis on the study of grammar. Students are introduced to articles published in Israeli newspapers and magazines, works by authors, and movies. Students develop composition and advanced writing skills by studying language structure, idioms, and various registers of style.

NES 305(3105) Conversational Hebrew (also JWST 305[3105])

Spring. Variable to 3 credits. Limited to 15 students. Prerequisite: NES 301, 400, or permission of instructor; non-native speakers only. Letter grades recommended. N. Scharf.

Intended to continue the development of all aspects of the language. Emphasis, however, is placed on speaking skills and understanding by using text material relevant to Israeli contemporary society. The instructor is sensitive to individual student needs.

NES 420(4102) Biblical Hebrew Prose—Joshua (also JWST/RELST 420[4102]) @ # (LA)

Fall. 4 credits. *Satisfies option 1*.

Prerequisite: one year of biblical or modern Hebrew. L. Monroe.

The biblical book of Joshua recounts miraculous stories of the Israelite conquest and settlement of the land of Canaan under the leadership of Joshua ben Nun. The details of these accounts have drawn the attention of biblical scholars and archaeologists alike, who are interested in questions of who the Israelites were, how they came to occupy the land of Canaan, and how they understood themselves in relation to their Canaanite neighbors. In this class we will read the book of Joshua in the original Hebrew, with a particular focus on how the language of the text illuminates the Israelites' own evolving understanding of their origins and collective identity. Close attention will be paid to matters of grammar, syntax, and vocabulary in order to develop students' skills in reading biblical Hebrew prose and to enhance their understanding of the Hebrew language itself as a window on ancient Israelite thought. Students will be expected to utilize commentaries, biblical Hebrew grammars and lexicons in their preparation of assigned texts. Prior training in Hebrew is required.

Hindi-Urdu**NES 105-106(1310-1311) Elementary Hindi-Urdu (also HINDI 101-102[1101-1102])**

Fall, spring. 6 credits each semester. Staff. For description, see HINDI 101-102.

NES 107(1312) Introduction to Urdu Script (also HINDI 125[1125])

Spring. 1 credit. Staff. For description, see ASIAN 125.

Persian**NES 115-116(1320-1321) Elementary Persian I and II**

115, fall; 116, spring. 4 credits each semester. Limited to 15 students. I. Gocheleishvili.

Designed for students who want an effective and comprehensive approach to learning Persian that will enable them to progress in the language skills of speaking, listening, reading, and writing. At the completion of this course, students are prepared to deepen their comprehension of Persian through literature and the media.

NES 119-219(1319-2319) Intermediate Persian I and II

119, fall; 219, spring. 4 credits. *NES 219 @ satisfies Option 1*. Prerequisite: one year (two semesters) elementary Persian or permission of instructor. I. Gocheleishvili. A continuation of NES 115-116. Continued development of speaking, listening, reading, and writing skills.

Turkish**NES 117-118(1330-1331) Elementary Turkish I and II**

117, fall; 118, spring. 4 credits each semester. Limited to 15 students. D. Ipek. Intended for students with no experience in Turkish. The goal is to provide a thorough grounding in Turkish language with an emphasis on communication. Small class size provides intensive practice in speaking, writing, and listening/comprehension. The course is co-sponsored by the Institute for European Studies.

Ancient Near Eastern Languages**Akkadian****NES 333-334(3410-3411) Elementary Akkadian I and II (also NES 633-634[6410-6411])**

333, fall; 334, spring # @ (LA). 4 credits each semester. Prerequisite: for NES 334, NES 333 or permission of instructor. Recommended: knowledge of another Semitic language. Staff.

Introduction to the Semitic language of the Akkadians and Babylonians of ancient Mesopotamia. Using the inductive method, students are rapidly introduced to the grammar and the cuneiform writing system of Akkadian through selected readings in the Code of Hammurapi, the Descent of Ishtar, and the Annals of Sennacherib. Secondary readings in comparative Semitic linguistics, the position of Akkadian in the family of Semitic languages and on the history and culture of Mesopotamia provide a background for study of the language.

Topics Courses**NES 223(2623) Introduction to the Hebrew Bible (also JWST/RELST 223[2623]) @ # (LA)**

Fall. 3 credits. L. Monroe.

The Hebrew Bible (Old Testament) is a repository of ancient Israelite religious, political, social, historical, and literary traditions. For the modern reader these ancient traditions are often obscured by a focus on the text as revelation. The purpose of this course is to introduce students to the biblical world by reading the Hebrew Bible in translation, on its own terms, as a body of literature that evolved in an ancient Near Eastern context. The Bible itself will be the primary text for the course, but students will also be exposed to the rich and diverse textual traditions of the ancient Near East, including Mesopotamia, Egypt, Moab, and Ugarit. In addition, this course will explore the impact of early biblical interpretation on shaping the monotheistic traditions inherited in the West. As participants in a secular course on the Bible, students will be challenged to question certain cultural assumptions about the composition and authorship of the Bible, and will be expected to differentiate between a text's content and its presumed meaning.

NES 244(2644) Introduction to Judaism (also JWST 244[2644], RELST 244[2644]) @ # (HA)

Spring. 3 credits. L. Monroe.

This course is designed to acquaint students with the varieties of Judaism from ancient times to the early modern period. A strong emphasis will be placed on ancient Jewish

civilization, and how ancient structures shaped later religious, social, and political trends. Particular attention will be devoted to moments of continuity and change in ideas and practices in each major phase of their historical development. Students will learn to analyze material evidence and primary texts in translation, to engage with the questions brought to bear on this material by contemporary scholars, and to generate their own critical questions. This course will also explore the ways Judaism and the Jewish people have been understood through various interpretive lenses, including, sociology, religious studies, anthropology, musicology, women's studies, and film studies. Students will be encouraged to think creatively, and to engage in experiential and hands-on investigation of particular issues.

NES 250(2750) *Maladies of the Soul: Don Quijote* (also SPANL 255[2550]) (LA)

Fall. 3 credits. M. A. Garcés.
For description, see SPANL 255.

NES 251(2651) *Holy War, Crusade, and Jihad in Judaism, Christianity, and Islam* (also HIST 269[2691], JWST/RELST 251[2651]) @ # (HA)

Fall. 3 credits. R. Brann.
Articulating and elaborating religious justifications for war is a cultural practice unique to the three monotheistic traditions and their respective textual communities. This notion and its practice have had profound historical consequences in the past that extend to and inform present-day global socio-political conflicts. The first part of this course will examine the origins of the concept of holy war, crusade and jihad and trace their cultural histories. The second part of the course will be devoted to discussing the ways in which contemporary discourses such as a "clash of civilizations," "the Evil Empire," "The Great Satan," and the "Axis of Evil" draw upon these respective cultural histories and explicitly or implicitly positing political conflict as a "battle for God."

NES 255(2655) *Introduction to Islamic Civilization* (also HIST 253[2530], RELST 255[2655]) @ # (HA)

Fall. 3 credits. D. Powers.
Considers the major themes of Islamic civilization as they developed from the lifetime of Muhammad until the 20th century. While the readings provide the student with the chronology of Islamic history, lectures are devoted to an analysis of thematic units, such as art and architecture, science, and cities. The class meets three times weekly, and the classroom format is that of a lecture/discussion in which students are encouraged to participate actively. Lectures are accompanied by slide presentations when appropriate.

NES 261(2661) *Ships and Seafaring—Introduction to Nautical Archaeology* (also JWST 261[2661]) @ # (HA)

Spring. 4 credits. C. Monroe.
A survey of the history and development of ships and seafaring as revealed by shipwrecks, boat burials, texts, art, and other evidence. The role of nautical technology and seafaring among the maritime peoples of the ancient Mediterranean world—Canaanites, Minoans, Mycenaeans, Phoenicians, Hebrews, Greeks, and Romans—as well as the riverine cultures of Mesopotamia and Egypt, is addressed. The survey stretches from the earliest evidence for Mediterranean seafaring around 10,000 BCE

to the first transatlantic voyages in the 15th century, including Arab, Viking, and European explorers, and the birth of modern capitalism in the Italian Maritime Republics. Along the way, economics, war, exploration, cult, life at sea, and colonization are discussed.

NES 262(2662) *Daily Life and the Cultural Landscape of the Biblical World* (also ARKEO 260[2662], JWST 262[2662], RELST 261[2662]) @ # (CA)

Fall. 3 credits. J. Zorn.
Surveys the common and not-so-common daily activities of the world of ancient Israel and its neighbors in Mesopotamia, Egypt, and Canaan. Many courses cover aspects of ancient political history or ancient literature, but these often focus on the activities of members of social elites, at the expense of the activities of more average citizens. The focus of this course on ancient technologies provides a broader spectrum, spanning all social classes. Material to be covered includes topics such as food production and processing, pottery production, metallurgy, glass making, cloth production and personal adornment, implements of war, medicine, leisure time (games and music), and others.

NES 265(2665) *SSP: Law, Society, and Culture in the Middle East* (also RELST 265[2665], HIST 222[2220]) @ # (CA)

Spring. 3 credits. Limited to 15 students.
Prerequisite: none. Sophomore seminar.
D. Powers.

Explores the nature of the Islamic judicial system and notions of justice. Class discussions are based upon the close reading of historical materials, including legal documents, judicial opinions, and court cases (all in English translation), which form the basis of writing assignments. Themes treated include the marital regime, relations between parents and children, gender, slavery, the intergenerational transmission of property, the status of non-Muslims, crime and its punishment, law and the public sphere.

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. Sophomore Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores the seminars aim at initiating students into the discipline's outlook, its discourse community, its modes of knowledge, and its ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

NES 266(2666) *Jerusalem Through the Ages* (also JWST/ARKEO/RELST 266[2666]) @ # (HA)

Spring. 3 credits. J. Zorn.
Jerusalem is a holy city to the adherents of the three great monotheistic faiths: Judaism, Christianity, and Islam. For most of its existence it has also been a national capital or major provincial center for the many states and empires that vied for control of the vital land bridge connecting Africa, Europe, and Asia. Thus many of the pivotal events that shaped western civilization were played out in the streets and structures of Jerusalem. This course explores the history, archaeology, and natural topography of Jerusalem throughout its long life, from its earliest remains in the Chalcolithic period (ca. 4000 BCE) to the

19th century, including Jebusite Jerusalem, Jerusalem as the capital of the Davidic dynasty, the Roman era city of Herod and Jesus, the Crusaders and medieval Jerusalem, and Ottoman Jerusalem as the city entered the modern era. Students examine the original historical sources (e.g., the Bible, Josephus, the Madaba map) that pertain to Jerusalem. Slides and videos are used to illustrate the natural features, man-made monuments, and artifacts that flesh out the textual material providing a fuller image of the world's most prominent spiritual and secular capital.

NES 268(2668) *Ancient Egyptian Civilization* (also ARKEO/JWST 268[2668]) @ # (HA)

Fall. 3 credits. C. Monroe.
The course surveys the history and culture of pharaonic Egypt from its prehistoric origins down to the early first millennium BCE. Within a chronological framework, the following themes or topics will be considered: the development of the Egyptian state (monarchy, administration, ideology); social organization (class, gender and family, slavery); economic factors: empire and international relations;

NES 293(2793) *SSP: Middle Eastern Cinema* (also JWST 291[2793], FILM 293[2930], COM L 293[2930], VISST 293[2193]) @ (LA)

Fall. 4 credits. D. Starr.
We frequently see representations of "Middle Easterners" in the American media, whether on the news, or in TV dramas and film. But there are far fewer opportunities to see how the media from the Middle East represent their own cultures. Students in this course view films from the Arab world, including North Africa and the Eastern Mediterranean, as well as from Iran and Israel. The films range from musical comedies, to dramas, to experimental genres. Readings provide background on the particular cultural and historical contexts in which the films are produced and familiarize students with techniques for critically interpreting visual media. Films are screened on Mondays at 7:30 p.m. and also are available on reserve.

NES 332(3832) *Martyrdom in Contemporary Societies* (JWST 332[3832]) (SBA)

Spring. 4 credits. Staff.
Nothing demonstrates better the power of society than the readiness of some individuals to sacrifice their lives for their community, their nation, or their religious group. There is no better way to unify a group than to celebrate the image of individuals who sacrificed themselves, ostensibly, for their community. This course sheds a sociological light on these intimate relations between violent death and solidarities of modern societies. Offers a comparative discussion on the social significance of heroic death and victimhood in various contexts around the globe. Examines various national "cultures of death," analyzing what sociological theories have to say about these phenomena, and discussing the required adaptations in existing theories in light of case studies presented in class.

NES 343(3430) *Tales of Love and Lust* (also SPANL 331[3310])

Fall. 4 credits. M. A. Garcés.
For description, see SPANL 133.

NES 364(3664) Ancient Iraq I: Origins of Mesopotamian Civilization (also JWST 364/664[3664-6664], ARKEO 364[3764], NES 664[6664]) @ # (HA)

Fall. 4 credits. D. I. Owen.

Introduction to the language, literature, history, culture, and archaeology of Syro-Mesopotamia in the fourth and third millennia BCE. Focuses on Sumerian civilization from its emergence in the archaeological record in the fourth millennium until its disappearance around 2000 BCE. In addition, it emphasizes the parallel development of the Semitic peoples in Syria (Eblaites) and upper Mesopotamia (Akkadians). A special feature of the course is a basic introduction to the Sumerian language using original cuneiform tablets in the collection of the Department of Near Eastern Studies.

NES 384(3784) Israeli Literature: Between Self and Nation (also JWST 384[3784]) (LA)

Spring. 4 credits. D. Starr.

In this course we will read a selection of works by Israeli authors written after the establishment of the state in 1948. We will focus in particular on the formation of national identity as it has been shaped and reshaped through literary works. Even from the earliest years of the state there were sites of resistance against the pressure to conform. Some of the texts we read explore these tensions between the self and nation, while others explore alternate collective identities within or beyond the confines of the nation and the state. Among the authors we may read are: Orly Castel-Bloom, Sami Mikhail, Amos Oz, Ya'akov Shabtai, Anton Shammas, A. B. Yehoshua. All works will be read in English translation. No knowledge of Hebrew is required.

NES 389(3889) Sociology of Sport @ (SBA)

Spring. 4 credits. Staff.

NES 395(3895) Israeli Society (also JWST 395[3895], SOC 390[3900]) @ (SBA)

Fall. 4 credits. Staff.

Introduces students to major themes in contemporary Israeli society, focusing on the following: the tension between the definition of Israel as a Jewish state and its aspiration to be democratic, the place of religion in politics, the effects of the long-term occupation of the West Bank and the Gaza Strip, the fragile status of the Arab Palestinian citizens of Israel, civil-military relations, intra-Jewish ethnic divides, and gender relations. The course emphasizes processes of the formation of collective identities in Israel and the interdependency of culture and politics. Requirements: students are expected to come to class fully prepared to participate in a discussion of the readings; three knowledge quizzes; a movie report; active participation in the course web site forum; a midterm paper; final exam.

NES 400(4100) Seminar in Advanced Hebrew (also JWST 400[4100]) @ (LA)

Fall. 4 credits; because topics vary by semester, may be repeated for credit by permission of instructor. *Satisfies Option 1.* Limited to 15 students. Prerequisite: NES 301 with grade equivalent to C- or better or permission of instructor. Letter grades recommended. N. Scharf.

Continuation of work done in NES/JWST 301, with less emphasis on the study of grammar. Students read and discuss texts of cultural relevance, using articles published in Israeli newspapers and works by authors in each of the three principal genres: poetry, theater, and novels.

NES 401(4101) Modern Hebrew Literature (also JWST 401[4101]) @ (LA)

Spring. 4 credits. *Satisfies Option 1.* Limited to 15 students. Prerequisite: NES/JWST 302, or permission of instructor. D. Starr.

Literature has held a privileged place in the revival of modern Hebrew and the formation of Israeli culture. This course affords students the opportunity to read a sampling of this exciting literature. Each semester feature a different theme, topic, or period in the development of Hebrew literature. Readings may include short stories, novels, poetry, and drama. All readings, writing assignments, and discussions are in Hebrew.

NES 415(4202) Arabic Short Story @ (LA)

Fall. 4 credits. Prerequisite: NES 312 or permission of instructor. D. Starr.

Introduces students to modern Arabic literature through the genre of the short story. Class discussions and writing assignments center on interpretation and textual analysis.

NES 438(4738) Imagining the Mediterranean (also JWST 438[4738], COM L 496[4960])

Fall. 4 credits. G. Holst-Warhaft.

Through a series of readings in poetry and prose from Greece, Spain, Morocco, Turkey, Israel and Egypt, the course examines how Mediterranean writers interact with the sensuous aesthetics of landscape, music, and ritual in the Mediterranean. We will be concerned with how poetry, music, dance and image interact in the region, and how this relationship is reflected in 20th-century literature from and about the Mediterranean. The readings will focus on particular cases, such as the relationship of Lorca's poetry to the of Andalusia, lowbrow musical form in Greece, and the nostalgia for the mythical city of Alexandria in Cavafy and other Alexandrian authors. We will also consider how the myth of the Mediterranean has affected modern literary imagination within and beyond the region.

NES 445(4545) Gender, Sexuality, and the Body in Late Antiquity (also RELST 445[4545], FGSS 447[4470])

Fall. 4 credits. K. Haines-Eitzen.

Beliefs about gender, sexuality, and the human body were remarkably interwoven with political, religious, and cultural disputes of late antiquity. In this course we will explore the construction and representation of gender, sexuality, and the body in various forms of Christianity, in hellenistic and early rabbinic Judaism, and the philosophical writings from the first century through the fourth. Asceticism and celibacy, veiling and unveiling, cross-dressing and Gnostic androgyny, marriage and childbirth, and homosexuality will be among the topics considered. The sources (all in translation) will range from the New Testament, early Christian apocrypha, martyrologies, and patristic writings to Greek and Latin medical and philosophical texts, Jewish midrash, Dead Sea Scrolls, Roman inscriptions, and Egyptian erotic and magical spells. Current interdisciplinary and theoretical studies on

gender, ideology, sexuality, and power will aid us in developing our analytical approaches to the ancient materials.

NES 447-448(4947-4948) Middle Eastern Music Ensemble (also MUSIC 431-432[3614])

447, fall; 448, spring. 1 credit each semester. Limited to 40 students.

Prerequisite: permission of instructor.

M. Hatch and staff.

Performance of diverse musical traditions from the Middle East. Instruction in percussion, oud, ney, and kanoun, among others.

NES 457(4657) Seminar in Islamic History: Formation of Islamic Law (RELST 457[4657], HIST 453[4530]) @ # (HA)

Fall. 4 credits. Prerequisite: NES 255 or equivalent; or permission of instructor. D. Powers.

Examines what has been called "the mystery of the formation of Islamic law" by attempting to establish a middle ground between the traditional Islamic approach to the subject and that of revisionist western scholars. Themes discussed include: the Near Eastern and Arabian background of the Quranic legislation; the relationship between Quranic legal pronouncements and legal practice during the first century AH; the debate over the authenticity of *hadith* reports, i.e., statements about what Muhammad said, did or condoned by his silence; the role of caliphal law and Umayyad administrative practice; and the formation of the law schools or *madhhabs*. Fulfills research seminar requirement for major.

NES 460(4560) Theory and Method in Near Eastern Studies (CA)

Spring. 4 credits. Requirement for NES majors. R. Brann.

Seminar offering advanced Near Eastern Studies students the opportunity to read and discuss the range of theories and methods that have been employed by scholars in the interdisciplinary area of Near Eastern Studies. After giving attention to the historical development of area studies programs—and their current status and relevance—students read a wide range of highly influential works in Near Eastern Studies. Literary theory, historiography, post-colonialism, archaeology, gender theory, and comparative religions are a few of the approaches, methods, and theories explored. Authors include Talal Asad, Homi K. Bhabha, Mircea Eliade, Timothy Mitchell, Mary Douglas, Zachary Lockman, Edward Said, J. Z. Smith.

NES 466(4666) History of Israelite Religion (also JWST 466[4666], RELST 466)

Spring. 4 credits. L. Monroe.

This class will focus on the diversity of ancient Israelite practice and belief throughout the biblical period, and its rootedness in the polytheistic religious traditions of ancient Syria-Palestine. It will focus on the worship of Yahweh and other deities in ancient Israel, and will trace the long and complicated process by which Yahweh became the sole deity accepted within the biblical tradition. Using biblical evidence, as well as inscriptional and archaeological discoveries from Syria-Palestine and elsewhere in the ancient Near East, we will address the question of why the Israelites eventually rejected deities such as Baal, Asherah, El, and others, who were originally part of the

Israelite pantheon, and who contributed much of the divine imagery that came to be associated with Yahweh. We will explore the ways in which a small group of Jerusalem elites helped shape the monotheistic tradition that has been inherited in the West, and we will explore the political, social and theological implications of this transformation.

NES 470 Power and Wealth in Ancient Civilizations (also JWST 470)

Spring. 4 credits. C. Monroe.

How were wealth and power created and distributed in ancient Mesopotamia, Egypt, and the Aegean? Using archaeological, anthropological, sociological and historical approaches, several case studies will be considered: the emergence of urbanism in the Uruk and Minoan worlds; the construction of bureaucracy in the Ur III state; the organization of empire under Hittite, Egyptian and Assyrian rulers; and the economic strategies of resistance used in smaller kingdoms and city-states like Israel and Phoenicia. The role of the trader in these societies will be examined, as will the role of certain polities within larger economic systems. The case studies are approached after students are introduced to the intellectual foundations of historical materialism in early authors (like Smith, Marx, and Weber) and are versed in current approaches to political economy in early states.

NES 491-492(4991-4992) Independent Study, Undergraduate Level

Fall and spring. Variable credit.

Prerequisite: permission of instructor. Staff.

NES 498-499(4998-4999) Independent Study, Honors

Fall and spring. 8 credits. Prerequisite:

permission of instructor. Staff.

NES 619 The Arabic Novel

Spring. 4 credits. Prerequisites: 400-level Arabic course or equivalent, or permission of instructor. D. Starr.

Advanced topical seminar pertaining to the Arabic novel. As the topics vary from semester to semester, the course may be repeated with permission of the instructor.

NES 630(6230) Judeo-Arabic Literature (JWST 630)

Fall. 4 credits. R. Brann. Prerequisites: NES 212 (Arabic), NES 202(Hebrew) or equivalents. Designed for graduate students but open to undergraduates with permission of instructor. May be repeated for credit; readings will vary from year to year.

This course will study some of the most important texts of classical Judeo-Arabic literature produced in Iraq, Egypt, North Africa and Muslim Spain from 900 until 1200. Depending on the textual genre the focus will vary from literary, philosophical, linguistic, and historical analysis.

NES 691-692(6991-6992) Independent Study: Graduate Level

Fall and spring. Variable credit.

Prerequisite: permission of instructor. Staff.

Related Courses in Other Departments

Africana Studies

Archaeology

Asian Studies

Classics

Comparative Literature

Economics

English

Feminist, Gender, and Sexuality Studies

German Studies

Government

English

History

History of Art

Linguistics

Medieval Studies

Music

Philosophy

Religious Studies

Romance Studies

Russian Literature

Society for the Humanities

Sociology

Theatre, Film, and Dance

Visual Studies

NEPALI

See "Department of Asian Studies."

PALI

See "Department of Asian Studies."

PHILOSOPHY

G. Fine, chair; T. Bloser, R. N. Boyd, A. Chignell (on leave 2006-2007), Y. Cohen, M. Eklund (on leave Spring 2007), H. Hodes (on leave Spring 2007), T. Irwin, M. Kosch, S. MacDonald (on leave Fall 2006), R. W. Miller, M. Moody-Adams, N. Sethi, H. Shue (on leave 2006-2007), N. Silins, N. Sturgeon, B. Weatherston. Emeritus: C. A. Ginet, S. Shoemaker.

The study of philosophy provides students with an opportunity to become familiar with some of the ideas and texts in the history of thought while developing analytical skills that are valuable in practical as well as academic affairs. It affords the excitement and satisfaction that come from understanding and working toward solutions of intellectual problems. The curriculum includes offerings in the history of philosophy, logic, philosophy of science, ethics, social and political philosophy, metaphysics, and theory of knowledge. Any philosophy course numbered in the 100s or 200s is suitable for beginning study in the field. Sections of PHIL 100 are part of the first-year writing seminar program; they are taught by various members of the staff on a variety of philosophical topics, and because of their

small size (17 students at most) they provide ample opportunity for discussion. Students who want a broad introduction to philosophy may take PHIL 101, but many students with special interests may find that the best introduction to philosophy is a 200-level course in some particular area of philosophy; such courses have no prerequisites and are usually open to first-year students.

The Major

Students expecting to major in philosophy should begin their study of it in their freshman or sophomore year. Admission to the major is granted by the director of undergraduate studies of the department on the basis of a student's work during the first two years. Normally the student must have completed two philosophy courses with grades of B or better. Eight philosophy courses, taken for a letter grade, are required for the major. They must include at least one course on ancient philosophy (PHIL 211, or a course with a large component on Plato or Aristotle), at least one course on classical modern metaphysics and epistemology from Descartes through Kant (e.g., PHIL 212 or a course on the empiricists, the rationalists, or Kant), and a minimum of three courses numbered above 300. Students admitted to the major (after fall 1996) are required to take a minimum of six philosophy courses numbered above 200, and may not count more than one section of PHIL 100 toward the major. Courses numbered 191-199 do not count toward the major. A course in formal logic (e.g., PHIL 231), while not required, is especially recommended for majors or prospective majors.

Philosophy majors must also complete at least 8 credits of course work in related subjects approved by their major advisors. Occasionally majors may serve as teaching or research aides, working with faculty members familiar with their work.

Honors. A candidate for honors in philosophy must be a philosophy major with an average of B- or better for all work in the College of Arts and Sciences and an average of B+ or better for all work in philosophy. In either or both semesters of the senior year a candidate for honors enrolls in PHIL 490 and undertakes research leading to the writing of an honors essay by the end of the final semester. *Honors students normally need to take PHIL 490 both semesters of their senior year to write a satisfactory honors essay.* PHIL 490 does not count toward the eight philosophy courses required for the major. Prospective candidates should apply at the Department of Philosophy office, 218 Goldwin Smith Hall.

Fees

In some courses a small fee may be charged for photocopying materials to be handed out to students.

Introductory Courses

First-Year Writing Seminars in Philosophy

Fall and spring. 3 credits. Consult John S. Knight Institute brochure for times, instructors, and descriptions.

PHIL 101(1101) Introduction to Philosophy # (KCM)

Fall and spring. 3 credits. Prerequisite: none. Open to freshmen. B. Weatherston.

An introduction to basic issues and methods in philosophy, focusing on questions about

philosophy of religion and philosophy of mind. The first part of the course will look at whether God's existence is consistent with the amount of suffering we see, and whether the existence of a divine designer is the best explanation of the world we find. The second part will look at questions about minds, especially whether minds are identical to bodies, and whether machines can do what minds do.

PHIL 131(1310) Logic, Evidence, and Argument

Spring. 3 credits. Staff.

For description, see department web site.

PHIL 145(1450) Contemporary Moral Issues (KCM)

Fall, Y. Cohen; spring, Staff.

Fall 2006: In this course we will examine several contemporary moral problems, including abortion, capital punishment, euthanasia, affirmative action, and world hunger. We will approach these issues from a philosophical perspective by learning how to create and evaluate publicly accessible arguments and apply general moral principles to particular cases.

PHIL 181(1810) Introduction to the Philosophy of Science (KCM)

Fall and spring. 3 credits. Staff.

For description, see department web site.

PHIL 191(1910) Introduction to Cognitive Science (also COGST 101[1101], PSYCH 102[1200], COM S 101[1710], LING 170[1170]) (KCM)

Fall. 3 or 4 credits. B. Bienvenue.

For description, see PSYCH 102.

PHIL 211(2110) Ancient Philosophy (also CLASS 231[2661]) # (KCM)

Fall. 4 credits. Prerequisite: none. Open to freshmen. T. Irwin.

This course examines the origin and development of Western philosophy in Ancient Greece and Rome. We will study some of the central ideas of the Pre-Socratics, Socrates, Plato, Aristotle, and the Hellenistic philosophers (Epicureans, Stoics, and Skeptics). Questions to be considered include: What are the nature and limits of knowledge? Is knowledge even possible? How reliable is perception? What are the basic entities in the universe: atoms, Platonic Forms, or Aristotelian substances? Is moral knowledge possible? What is the nature of happiness and what sort of life will make people happy? Do human beings have free will? Ought we to fear death?

PHIL 212(2120) Modern Philosophy # (KCM)

Spring. 4 credits. Prerequisite: none. Open to freshmen. T. Blosier.

For description, see department web site.

PHIL 213(2130) Existentialism

Fall. 4 credits. Prerequisite: none. Open to freshmen. M. Kosch.

Examination of main philosophical texts of phenomenology and existentialism (by Husserl, Heidegger, Sartre, Merleau-Ponty), with some 19th century background.

PHIL 231(2310) Introduction to Deductive Logic (MQR)

Fall and spring. 4 credits. Prerequisite: none. Open to freshmen. Fall: H. Hodes; spring: Staff.

Fall 2006 topic: The logic of truth-functional connectives, identity, and the universal and existential quantifiers; a formal language;

translation between it and English; constructing worlds and models; and constructing proofs. We'll use a textbook accompanied by a software package, *Language, Proof, and Logic* by J. Barwise and J. Etchemendy

PHIL 241(2410) Ethics (KCM)

Fall. 4 credits. Prerequisite: none. Open to freshmen. N. Sturgeon.

An introduction to the philosophical evaluation of moral theories and moral arguments. Ethical relativism, ethical egoism, ethical skepticism, utilitarianism, and duty-based theories; some application to controversial contemporary issues.

PHIL 242(2420) Social and Political Philosophy (KCM)

Spring. 4 credits. Prerequisite: none. Open to freshmen. Staff.

For description, see department web site.

PHIL 245(2450) Ethics and Health Care (KCM)

Spring. 4 credits. Prerequisites: none. Open to freshmen. N. Sethi.

An introduction to the philosophical study of ethical problems that arise from the practice of medicine as such or that arise in response to developments within medicine and the larger world. Does it require that all have access to approximately the same level of health care? In addition to learning how to arrive at and defend ethical positions, we reflect on the techniques and methods we use.

PHIL 246(2460) Ethics and the Environment (also S&TS/B&SOC 206[2061]) (KCM)

Spring. 4 credits. Staff.

For description, see B&SOC 206.

PHIL 248(2480) Ethics and International Relations (also GOVT 248[2485]) (KCM)

Spring. 4 credits. Prerequisite: none. Open to freshmen. R. Miller.

An introduction to moral problems posed by international relations. The justification of wars and the assessment of tactics in wars, the right response to global poverty and inequality, the just governance of multinational institutions, the moral importance of sovereignty, self-determination and cultural autonomy, the benefits and burdens of globalization, the moral significance of America's global power, and the tension between patriotic and cosmopolitan duties are some of the issues that may be addressed.

PHIL 249(2490) Feminism and Philosophy (also FGSS 249[2490]) (KCM)

Fall. 4 credits. Prerequisite: none. Open to freshmen. N. Sethi.

This class will examine a variety of feminist attempts to understand and explain the various ways in which traditional philosophy reflects bias against women. We will also consider a variety of feminist viewpoints and examine how these are used to address "real life" issues regarding sexuality, violence, family structure, identity, peace, and war.

PHIL 261(2610) Knowledge and Reality (KCM)

Fall and spring. 4 credits. Prerequisite: none. Open to freshmen. Fall: T. Blosier; spring: Staff.

For description, see department web site.

PHIL 262(2620) Philosophy of Mind (KCM)

Fall. 4 credits. Prerequisite: none. Open to freshmen. N. Silins.

We will evaluate views about the nature of mental states and about their relation to the brain, behavior, and the world. Questions we will consider include: are mental states the same as states of our brains? If not, what is the relation between them and states of our brains? How is it possible for mental states to cause our behavior? We will pay special attention to questions about the nature of consciousness and about whether consciousness can be understood in physical terms.

PHIL 263(2630) Religion and Reason (also RELST 262[2630]) (KCM)

Spring. 4 credits. Prerequisite: none. S. MacDonald.

What must (or could) God be like, and what reasons do we have for thinking that a being of that sort actually exists? What difference would (or could) the existence of God make to our lives? This course examines the idea, shared by several major world religions, that God must be an absolutely perfect being. What attributes must a perfect being have? Must it have a mind, be a person, care for human beings? Is the concept of a perfect being coherent? Is the existence of a perfect being compatible with the presence of evil in the world and the existence of human freedom? Does human morality depend in any important way on the nature or will of a perfect being? Is a perfect being among the things that actually inhabit our universe? The course approaches these questions with the tools and methods of philosophical reason and through readings drawn from both classic texts and contemporary philosophical discussion.

PHIL 286(2860) Science and Human Nature (also S&TS 286[2861]) (KCM)

Spring. 4 credits. Prerequisite: university level course in biology or equivalent, or permission of instructor. R. Boyd.

Examination of attempts in the biological and social sciences to offer scientific theories of human nature and human potential and to apply such theories to explain important social and psychological phenomena.

Intermediate or Advanced Courses

Some of these courses have prerequisites.

PHIL 309(3090) Plato (also CLASS 339[3669]) # (KCM)

Fall. 4 credits. Prerequisites: at least one previous course in philosophy at the 200 level or above; or permission of instructor. G. Fine.

We will consider many of Plato's major dialogues, focusing on questions in metaphysics and epistemology, though some attention will also be paid to his ethical and political theories, especially in the *Republic*. Among the topics we will consider are the following: the theory of Forms; Socrates' disavowal of knowledge; dialectic and recollection; the nature of knowledge and how to acquire it; the nature of the soul and moral motivation; justice and happiness.

PHIL 310(3100) Aristotle (also CLASS 340[3664]) # (KCM)

Spring. 4 credits. Prerequisite: one philosophy course. T. Irwin.

An examination of the philosophical significance of Aristotle's major works,

especially in natural philosophy, philosophy of mind, and metaphysics.

PHIL 311(3110) Modern Rationalism #

Spring. 4 credits. Prerequisite: one philosophy course. Staff.

For description, see department web site.

PHIL 312(3120) Modern Empiricism # (KCM)

Fall. 4 credits. Prerequisite: one philosophy course. Staff.

For description, see department web site.

PHIL 316(3160) Kant # (KCM)

Spring. 4 credits. Prerequisite: one philosophy course. Staff.

For description, see department web site.

PHIL 320(3200) 19th and 20th Century Continental Philosophy

Fall. 4 credits. Prerequisite: one philosophy course. M. Kosch.

Survey of European social theory from Hegel to Foucault (via Marx, Nietzsche, Freud, Weber, and the Frankfurt School).

PHIL 331(3310) Deductive Logic (also MATH 281[2810]) (MQR)

Fall. 4 credits. H. Hodes.

The syntax and model-theory of classical propositional logic and classical predicate logic, including proofs of the soundness and completeness of Natural Deduction formalizations of these logics, with some attention to related material.

PHIL 332(3320) Philosophy of Language (also LING 332[3332])

Fall. 4 credits. Prerequisite: one philosophy course or permission of instructor. Staff.

The course is an introduction to, and an overview of, philosophy of language. We will cover a variety of issues, including singular reference, meaning, truth, analyticity, indeterminacy, and nativism. We will pay special attention to the development of philosophy of language from Frege's late nineteenth century writings through today, and to the interplay between philosophy of language and other areas of philosophy.

PHIL 333(3330) Problems in Semantics (also LING 333[3333], COGST 333[3330]) (KCM)

Spring. 4 credits. S. McConnell-Ginet

For description, see LING 333.

PHIL 341(3410) Ethical Theory (KCM)

Spring. 4 credits. Prerequisite: one philosophy course or permission of instructor. N. Sturgeon

Topic: Consequentialism and its critics. This course will examine one of the deepest divides in modern philosophical debates about ethics, between those who think the moral evaluation of acts, character traits and social institutions ultimately depends solely on their good or bad consequences, and critics who find this approach fundamentally misguided.

PHIL 346(3460) Modern Political Philosophy (also GOVT 362[3625]) (KCM)

Fall. 4 credits. R. Miller.

A study of the leading contemporary theories of justice, including the work of Rawls, Nozick, Gauthier, and Scanlon. In discussing these theories and their critics, we will encounter radically different accounts of the moral significance of economic inequality, the kinds of freedom that governments ought to protect, the kinds of values and convictions

that are a proper basis for laws (as opposed to being private matters); the tension between unequal political influence and democratic rights; and the roles of community, virtue, and group-loyalty in political justification. While mainly exploring these rival conceptions of freedom, equality, community, and obligation, we will also examine the implications of these theories for specific political controversies (e.g., abortion, welfare programs, and pornography).

PHIL 364(3640) Metaphysics (KCM)

Spring. 4 credits. B. Weatherston.

We will look at a number of contemporary debates in metaphysics, including debates between reductionists and anti-reductionists about nomological concepts, competing theories of persistence and issues about material constitution. We will pay some attention to higher level debates about whether we should expect there to be objective answers to the questions we are investigating.

PHIL 381(3810) Philosophy of Science: Knowledge and Objectivity (also S&TS 381[3811]) (KCM)

Fall. 4 credits. R. Boyd.

Topics in the philosophy of science.

PHIL 390(3900) Independent Study

Fall or spring. Credit TBA.

To be taken only in exceptional circumstances. Must be arranged by the student with his or her advisor and the faculty member who has agreed to direct the study.

Advanced Courses and Seminars

These courses are offered primarily for majors and graduate students.

PHIL 409(4090) German Philosophical Texts (KCM)

Fall and spring. Variable credit.

Prerequisites: knowledge of German and permission of instructor. Staff.

Reading and translation of philosophical texts in German.

PHIL 410(4100) Latin Philosophical Texts (also RELST 410[4100]) # (KCM)

Spring. Variable credit. Prerequisites: knowledge of Latin and permission of instructor. Staff.

Reading and translation of philosophical texts in Latin.

PHIL 411 (4110) Greek Philosophical Texts (also CLASS 611[7111]) # (KCM)

Fall and spring. Variable credit.

Prerequisites: knowledge of Greek and permission of instructor. Staff.

Reading and translation of philosophical texts in Greek.

PHIL 415(4150) Medieval Philosophy # (KCM)

Spring. 4 credits. Prerequisite: at least two courses in philosophy numbered 200 or above, or permission of instructor.

S. MacDonald.

Topic for 2007: Aquinas's philosophical theology

PHIL 416(4160) Modern Philosophy # (KCM)

Fall. 4 credits. Staff.

For description, see department web site.

PHIL 431(4310) Mathematical Logic (also MATH 481[4810]) (MQR)

Spring. 4 credits. Staff.

For description, see MATH 481.

PHIL 435(4350) Pragmatics (also LING 425[4425]) (KCM)

Fall. 4 credits. D. Abusch.

For description, see LING 425.

PHIL 460(4600) Epistemology

Fall. 4 credits. N. Silins.

Self-Knowledge. Topics we will cover include: the extent and character of our first-person access to our mental states, the explanation of the extent and character of our first-person access to our mental states (with special attention to inner observation views), whether styles of skeptical argument against our knowing the external world can be run against our knowing our own minds, the compatibility of content externalism and first-person authority. We will work through material by Paul Boghossian, Jessica Brown, Tyler Burge, Alex Byrne, Richard Moran, Sydney Shoemaker, Timothy Williamson, and others.

PHIL 462(4620) Philosophy of Mind (KCM)

Spring. 4 credits. Staff.

For description, see department web site.

PHIL 464(4640) Metaphysics (KCM)

Fall. 4 credits. Staff.

For description, see department web site.

PHIL 481(4810) Problems in Philosophy of Science (also S&TS 481/681[4811/6811]) (KCM)

Spring. 4 credits. R. Boyd.

Topics in the philosophy of science.

PHIL 490(4900) Informal Study for Honors

Fall and spring. 4 credits. Prerequisite: senior honors students.

See "Honors" at the beginning of the Philosophy section.

PHIL 611(6110) Ancient Philosophy

Fall. 4 credits. T. Irwin.

Mind, action, and ethics in Aristotle and Stoicism.

PHIL 613(6130) Modern Philosophy

Spring. 4 credits. M. Kosch.

For description, see department web site.

PHIL 641(6410) Ethics and Value Theory

Fall. 4 credits. Prerequisite: this course is a seminar for Philosophy graduate students; others may enroll only with permission of instructor. N. Sturgeon.

Topic: Relativism, Realism, Subjectivism and Noncognitivism in Ethics and Value Theory.

PHIL 643(6430) Social and Political Philosophy

Spring. 4 credits. R. Miller.

Topic for 2007: International justice. We will discuss leading current controversies over international economic justice; morality and war; cultural diversity and human rights; global governance, social movements and democratic values; the moral significance of global power structures; and the moral status of sovereignty, patriotism and nationalism.

PHIL 661(6610) Epistemology

Spring. 4 credits. C. Ginet.

Topic: Timothy Williamson's book, *Knowledge and Its Limits*.

PHIL 665(6650) Metaphysics

Fall. 4 credits. M. Eklund.

Our main topic will be different ways to conceive of realism/antirealism disputes both the global dispute and how to understand this type of dispute as it arises with respect to particular discourses such as mathematics, ethics, modality, the past, etc. We will discuss error theories (about ethics and mathematics), non-factualism, anti-realism as it is found in the writings of Dummett and Putnam, response-dependence, and, lastly, fictionalism. We will relatedly discuss different conceptions of truth correspondence, coherence, deflationism, epistemic conceptions of truth and semantic conceptions of truth. As should be clear from this rather varied list of issues, the course will be an overview of the problems in the area rather than something focused on a narrowly conceived problem.

PHIL 700(7000) Informal Study

Fall or spring. Credit TBA.

To be taken by graduate students only in exceptional circumstances and by arrangement made by the student with his or her Special Committee and the faculty member who has agreed to direct the study.

PHYSICS

S. A. Teukolsky, chair (109 Clark Hall, 255-6016); C. P. Franck, director of undergraduate studies (101 Clark Hall, 255-8158, physicsdus@mailbox@cornell.edu); J. P. Alexander, V. Ambegaokar, T. A. Arias, E. Bodenschatz, P. Brouwer, D. G. Cassel, E. Cassel, I. Cohen, C. Csaki, J. C. Davis, G. F. Dugan, V. Elser, D. B. Fitchen, E. E. Flanagan, R. Fulbright, R. S. Galik, A. Giambattista, L. K. Gibbons, P. Ginsparg, B. Greene, S. M. Gruner, L. N. Hand, D. L. Hartill, C. L. Henley, G. Hoffstaetter, P. Krasicky, A. LeClair, D. M. Lee, G. P. Lepage, P. L. McEuen, E. Mueller, M. Neubert, H. Padamsee, J. M. Parpia, J. R. Patterson, M. Perelstein, D. C. Ralph, B. Richardson, R. C. Richardson, D. L. Rubin, A. Ryd, K. Schwab, K. Selby, J. P. Sethna, A. J. Sievers, E. Siggia, P. C. Stein, R. M. Talman, J. Thom, R. Thorne, H. Tye, C. Umrigar, M. D. Wang, I. Wasserman, P. Wittich, T.-M. Yan, J. York

The Department of Physics offers a full range of university-level work in physics, from general education courses for nonscientists to doctoral-level independent research. Major research facilities are operated by two component organizations, the Laboratory of Atomic and Solid State Physics (LASSP) and the Laboratory for Elementary Particle Physics (LEPP). LASSP carries out extensive research efforts in condensed-matter physics and biophysics. LEPP operates a major high-energy particle physics research facility at Wilson Laboratory, the Cornell electron-positron storage ring (CESR). Theoretical work is carried out in many fields of physics, including astrophysics. There is a full schedule of weekly research-oriented seminars and colloquia. Students find many opportunities for research participation and summer employment.

Introductory physics sequences are: 101-102, 207-208, and 112-213-214, or its more analytic version 116-217-218. In addition, there is a group of general-education courses, PHYS 200-206, 209, 210. PHYS 101-102, a

self-paced autotutorial course, is designed for students who do not intend to take further physics courses and who do not have preparation in calculus. PHYS 112 and 207 both require calculus (MATH 190 or 191 or 111), and additional mathematics is required for subsequent courses in the sequence. PHYS 101-102 or 207-208 may be taken as terminal physics sequences. The three-semester sequences 112-213-214 or 116-217-218, are recommended for engineers and physics majors.

Courses beyond the introductory level that might be of interest to nonmajors include PHYS 316 Modern Physics I; PHYS 330 Modern Experimental Optics; and PHYS 360 Electronic Circuits.

Advanced placement and credit are offered as outlined in "Advanced Placement of Freshmen," or students may consult the director of undergraduate studies, as should students requesting transfer credit for physics courses taken at another college.

The Major

The major program is constructed to accommodate students who wish to prepare for professional or graduate work in physics as well as those who wish to complete their major program in the field of physics but have other post-graduation goals. The physics major provides flexibility to pursue diverse interests through concentrations either within physics or outside physics.

Students who wish to major in physics are advised to start the physics sequence in the first semester of their freshman year. The major program still can be completed with a second-semester start, but flexibility in future course scheduling is reduced.

Prospective majors are urged to make an early appointment at the physics office for advice in program planning. Acceptance into the major program is normally granted upon completion of a year of physics and mathematics courses at Cornell with all course grades at the B-level or higher. Students wishing to declare the major should meet with the director of undergraduate studies, who will match the student with a major advisor following discussion of the student's interests. Details of the major course program are worked out in consultation between the student and major advisor. For students graduating after 2008, grades of at least C- or S for S-U only courses are required in all courses for the physics major.

Physics Core

Common to all major programs is a requirement to complete a core of physics courses. In addition to the three-semester introductory sequence (PHYS 112-213-214 and 216 before 316 or 116-217-218), the core includes five upper-level courses—(1) the two-course sequence in modern physics (PHYS 316-317), (2) at least three semester hours of laboratory work selected from PHYS 310, 330, 360, 410, ASTRO 410, (3) an intermediate course in classical mechanics, and (4) an intermediate course in electromagnetism.

Accompanying these physics courses should be work in mathematics through at least MATH 222 or 294. Students following the professional/graduate school channel are expected to complete at least one additional year of applicable mathematics (A&EP

321-322 or appropriate selections from mathematics).

In addition to the core, each physics major must complete 15 semester hours of credit in an area of concentration that has been agreed on by the student and major faculty advisor.

Concentration within Physics

A student who wishes to pursue professional or graduate work in physics or a closely related field should follow a concentration within the field of physics. For those students with a strong secondary school preparation, the sequence PHYS 116-217-218 is encouraged. Students are strongly encouraged to start the sequence with PHYS 116, even if they qualify for advanced placement credit for PHYS 112 and/or 213. Core courses in mechanics and electromagnetism will normally be PHYS 318 and 327, respectively. The minimum 15 hours beyond the core must be composed of physics courses with numbers greater than 300 and must include the senior laboratory course PHYS 410. This means a physics concentration needs a minimum of 7 credit hours of laboratory work to complete the requirements. The accompanying table shows several typical course sequences by means of which the major requirements may be completed. The primary distinction among students who may follow the different sequences is the amount and level of pre-college work in calculus and in physics. Changes in these typical patterns are common, as agreed on between student and major faculty advisor. Research work is encouraged of all majors. If this work is done as an independent project, PHYS 490, up to 8 credits can be applied to the concentration.

Concentration outside Physics

Such a concentration will reflect the student's interest in some area related to physics. The array of courses that comprise the concentration must have internal coherence. The array will normally be worked out in conference with the major faculty advisor and must be approved by the advisor. Of the required 15 hours credit beyond the core, at least 8 credits must be in courses numbered above 300. Students in the past have chosen to concentrate in a wide variety of fields, including (but not limited to) astronomy, business, chemical physics, computer science, econometrics, education, geophysics, history, and philosophy of science, law, meteorology, or public policy. A combined biology-chemistry concentration is common for pre-medical students or those who wish to prepare for work in biophysics.

The department particularly wishes to encourage students with an interest in science education. Physics majors can obtain teaching certification by concentrating in education and then completing a one-year master of arts in teaching (MAT) degree. Information about the education concentration and MAT can be obtained from the Department of Education's Cornell Teacher Education Program or from the director of undergraduate studies in physics. For students with concentrations outside physics, the core requirements in mechanics and electromagnetism can be appropriately met with PHYS 314 and 323, respectively.

Students with an astronomy concentration who might continue in that field in graduate school should use ASTRO 410, 431, 432 as

part of the concentration; they are encouraged to use PHYS 318 and 327 to satisfy the core requirements in mechanics and electromagnetism.

Honors

A student may be granted honors in physics upon the recommendation of the Physics Advisors Committee of the physics faculty. There is no particular course structure or thesis requirement for honors.

Double Majors

Double majors including physics are possible and not at all uncommon. It should be noted, however, that any course used to satisfy a requirement of another major may be used in satisfaction of physics major requirements only if the student's concentration is *within* physics.

Courses with Overlapping Content

Because the department offers several courses with overlapping content, students should select courses carefully to meet the needs of their academic programs and to ensure credit for each course they take. Listed below are groups of courses with largely similar content. In general, students may receive credit for only one of the courses in each group.

PHYS 101, 112, 116, 207
PHYS 102, 208, 213, 217
PHYS 214, 218
PHYS 314, 318
PHYS 323, 327
PHYS 116, 216

In addition, students with credit for PHYS 101, 112, 116, or 207, or an advanced placement equivalent who wish to enroll in PHYS 200-206, 209, or 210 should obtain written

permission from the instructor and the director of undergraduate studies in physics.

Course Prerequisites

Prerequisites are specified in physics course descriptions to illustrate the materials that students should have mastered. Students who wish to plan programs different from those suggested by the prerequisite ordering are urged to discuss their preparation and background with a physics advisor or with the instructor in the course. In many cases an appropriate individual program can be worked out without exact adherence to the stated prerequisites.

Courses

PHYS 012(1012) PHYS 112(1112) Supplement

Spring. 1 credit. S-U grades only.
R. Lieberman.

Provides backup instruction for PHYS 112. Recommended for students who either feel insecure about taking PHYS 112 or simply want to develop their problem-solving skills. Emphasis is on getting the student to develop a deep understanding of basic concepts in mechanics. Much class time is spent solving problems and applications.

PHYS 013(1013) PHYS 213(2213) Supplement

Fall. 1 credit. S-U grades only.
R. Lieberman.

Provides backup instruction for PHYS 213. Description is the same as for PHYS 012, except the material covered is electricity and magnetism.

PHYS 101(1101) General Physics I (PBS)

Fall, summer (eight-, six-, or a four-week session within the first weeks of the eight-week session). 4 credits. Enrollment may be limited and freshmen are excluded. General introductory physics for nonphysics majors. Prerequisites: three years high school mathematics, including some trigonometry. Students without high school physics should allow extra time for PHYS 101. Includes less mathematical analysis than PHYS 207 but more than PHYS 200-206, 209, 210. B. Richardson.

Emphasizes quantitative and conceptual understanding of the topics of introductory physics developed without use of calculus. The course is mostly self-paced in a mastery-oriented format including eight subject units and a final retention (review) unit. Most instruction occurs in the learning center with personal tutoring by staff, assigned readings, problems, laboratory exercises, videotaped lectures, and solutions of sample test questions at our web site. Unit testing is designed to measure mastery with a limit of three test tries. Major topics for 101: kinematics, forces and dynamics, momentum, energy, fluid mechanics, waves and sound, thermal physics, kinetic theory, and thermodynamics. At the level of *College Physics*, second edition, by Giambattista, Richardson, and Richardson.

PHYS 102(1102) General Physics II (PBS)

Spring, summer (eight-week, six-week, or second four weeks only for those doing PHYS 101 in first four weeks). 4 credits. Enrollment may be limited. Prerequisite: for PHYS 102, PHYS 101 or 112 or 207. Includes less mathematical analysis than PHYS 208 but more than PHYS 200-206, 209, 210. B. Richardson.

Emphasizes quantitative and conceptual understanding of the topics of introductory physics developed without use of calculus. The course is mostly self-paced in a mastery-oriented format including eight subject units and a final retention (review) unit each semester. Most instruction occurs in the learning center with personal tutoring by staff, assigned readings, problems, laboratory exercises, videotaped lectures, and solutions of sample test questions at the course web site. Unit testing is designed to measure mastery with a limit of three test tries taken at the time of the student's choice. Major topics for 102: electricity and magnetism, optics, relativity, quantum, nuclear, and particle physics. At the level of *College Physics*, second ed., by Giambattista, Richardson, and Richardson.

PHYS 103(1103) General Physics (PBS)

Summer. 4 credits. Prerequisite: three years high school mathematics, including trigonometry. Students without high school physics should allow extra time for PHYS 103. Introductory physics taught through interactive lectures; not recommended for students majoring in physics or engineering; fulfills same requirements as PHYS 101.

Basic principles treated quantitatively but without calculus. Topics include kinematics; forces and Newton's Laws; momentum, angular momentum, and energy; thermal physics and fluid mechanics; sound and waves, thermodynamics. Text is *College Physics*, by Giambattista, Richardson, and Richardson.

Typical Physics Course Sequences (other sequences are also possible)

Semester	No AP math or physics	1 year AP calculus and good HS physics	Outside concentrators	Outside concentrators (alternate)
1st - Fall	112	116	112	
2nd - Spring	213	217	213	112
3rd - Fall	214, 216	218	214, 216	213
4th - Spring	316, 3x0	316, 3x0	3x0	214, 216
5th - Fall	317, 327, 3x0	317, 327, 3x0	316	3x0, 316
6th - Spring	314/318, 443	318, 443	314	314, 3x0
7th - Fall	341, 410	341, 410	317, 323	317, 323
8th - Spring	Elective(s)	Elective(s)		

- For majors with concentrations outside physics, there is wide variation in individual programs, arranged to best match the field of concentration.
- Crossovers between the two sequences 112-113-214 and 116-217-218 are possible, although the combination 112-213-218 is difficult. PHYS 207 may be substituted for PHYS 112. Students taking 217 after 112 must co-register for 216.
- Students taking the honors sequence 116-217-218 are strongly encouraged to start with PHYS 116. Exceptionally well-prepared students may be able to begin work at Cornell with PHYS 217. Such students should visit the department office for advice in planning a course program.
- Physics electives for the major include 360, 444, 454, 455, 480, 490, 525, 553, 561, 572, the senior seminars 481-489, ASTRO 332 or 431-432, and A&EP 434.
- One semester of intermediate laboratory, listed here as 3x0, is required.
- Well-prepared sophomores wishing to take PHYS 318 should consult the instructor before registering.

PHYS 112(1112) Physics I: Mechanics (PBS)

Fall, spring, summer (six-week session). 4 credits. Primarily for engineering students and prospective physics majors. Prerequisite: MATH 191. Recommended: co-registration in MATH 192. Students co-registered in MATH 191, 112, or equivalent may enroll, but PHYS 112 employs some math concepts before their completion in these calculus courses. Fall, J. Thom; spring, Staff.

Covers the mechanics of particles with focus on kinematics, dynamics, conservation laws, central force fields, periodic motion. Mechanics of many-particle systems: center of mass, rotational mechanics of a rigid body, and static equilibrium. At the level of *University Physics*, Vol. 1, by Young and Freedman.

PHYS 116(1116) Physics I: Mechanics and Special Relativity (PBS)

Fall, spring, 4 credits. More analytic than PHYS 112; intended for students who are comfortable with deeper, somewhat more abstract approach; intended mainly but not exclusively for prospective majors in physics, astronomy majors, or applied and engineering physics majors. Prerequisites: good secondary school physics course, familiarity with basic calculus, and enjoyment of puzzle-solving. Corrective transfers between PHYS 116 and PHYS 112 (in either direction) are encouraged during first three weeks of instruction. Fall, H. Tye; spring, staff.

At the level of *An Introduction to Mechanics* by Kleppner and Kolenkow.

PHYS 117(1117) Concepts of Modern Physics

Fall, 1 credit. Enrollment may be limited. Corequisite: PHYS 112 or 116 or 213 or 217. For freshmen who plan to major in physics, applied and engineering physics, or astronomy. S-U grades only. A. Sadoff. Intended for freshmen who plan to major in physics or a closely related field (i.e., applied and engineering physics or astronomy) and would like to learn about the concepts of modern physics early in their physics education. Possible topics of discussion are methodology, symmetry and conservation laws, quantum theory, the unification of forces and matter, and big-bang cosmology.

PHYS 190(1190) Supplemental Introductory Laboratory

Fall, spring, 1 credit. Times TBA with instructor. Limited enrollment. S-U grades only. Prerequisites: 3 transfer credits for introductory physics lecture material; a degree requirement for laboratory component of that introductory course; approval of director of undergraduate studies; and permission of lecturer of that course at Cornell. Students must file PHYS 190 permission form 121 Clark Hall with physics department course coordinator. Students perform the laboratory component of one of the introductory courses (PHYS 112, 207, 208, 213, 214) to complement the lecture-related course credit acquired elsewhere. Those wishing to take equivalent of one of these introductory courses at another institution should receive prior approval from the physics director of undergraduate studies.

PHYS 201(1201) Why the Sky Is Blue: Aspects of the Physical World (PBS)

Fall, 3 credits. A. Sadoff.

Descriptive physics course aimed specifically at the nonscience student. There is an emphasis on the ideas of modern physics where the approach is both historical and thematic. The methodology of science and the nature of evidence is emphasized. An overriding theme is the unification and character of physical laws as shown, for example, through the great principles of symmetry and conservation. While a few computational problems are assigned, the purpose is to help students to understand the concepts rather than to master problem-solving techniques.

PHYS 202(1202) How Physics Works (PBS)

Spring, 3 credits. Intended for nonphysics majors. No background in either science or mathematics beyond high school algebra assumed. P. Stein.

Introduces students who are not majoring in scientific or quantitative disciplines to the techniques and ways of reasoning employed in physics. By gaining an understanding of two milestones in the history of physics (the discoveries of Newton and the application of the laws of laws of probability to physical problems), students learn about the interaction of experiment, mathematics, and conjecture that has fueled the advance of physics.

PHYS 203(1203) Physics of the Heavens and the Earth—A Synthesis (PBS)

Spring, 3 credits. Prerequisite: none; uses high school algebra and geometry. For nonscience majors. H. Padamsee.

Shows how the unification of apparently distinct areas of physics leads to an explosion in the growth of our knowledge and understanding. The material is divided into three parts: the physics of motion on earth; motion in the heavens; and synthesis. Trace how ideas about celestial and terrestrial motion evolved separately at first, from the ancient ideas of Greek philosophers to the dynamics and telescopic discoveries of Galileo during the Renaissance. The two arenas finally melded under Newton's Universal Gravitation. Einstein's special and general theories of relativity eventually supplanted Newton's ideas. There is an emphasis throughout on "how do we know the laws?" These are the stories of breakthrough discoveries and brilliant insights made by fascinating people, offering a humanistic perspective.

PHYS 204(1204) Physics of Musical Sound (also MUSIC 204[2111]) (PBS)

Spring, 3 credits. Intended for nonscientists; does not serve as prerequisite for further science courses. Assumes no scientific background but uses high school algebra. K. Selby.

Explores musical sound from a physics point of view. Topics include: how various musical instruments work; pitch, scales, intervals and tunings; hearing; room acoustics; reproduction of sound. Science writing and physics problem-solving skills are developed through weekly assignments. Student activities include hands-on investigations of musical instruments, and field trips. Students write a term paper investigating a topic of their choice. At the level of *The Science of Sound* by Rossing, Moore, and Wheeler.

PHYS 205(1205) Reasoning about Luck (PBS)

Fall, 3 credits. Intended for nonscientists. Does not serve as prerequisite for further science courses. Assumes no scientific background but uses high school algebra. V. Ambegaokar.

When and how natural scientists can cope rationally with chance is the theme of this course. Starting from simple questions—such as how one decides if an event is "likely," "unlikely," or just incomprehensible—an understanding is reached of more subtle points: why it is, for example, that in large systems likely events can become overwhelmingly likely. From these last considerations, the interested student is introduced to the second law of thermodynamics, that putative bridge between C. P. Snow's two cultures. The way in which chance occurs, albeit somewhat mysteriously, in quantum mechanics is also explained. There are several problem sets, but the main assignment is a 15- to 20-page paper on one or more of the topics covered.

PHYS 207(2207) Fundamentals of Physics I (PBS)

Fall, 4 credits. Prerequisites: high school physics plus MATH 111, 190, or 191, or solid grasp of basic notions of introductory calculus. Corequisite: math course approved by instructor. R. Thorne.

A two-semester introduction to physics, intended for students majoring in an analytically oriented biological science, a physical science, or mathematics. The combination of lectures illustrated with applications from the sciences, medicine, and everyday life, weekly labs tightly coupled to lectures that introduce computer-aided data acquisition and analysis, and recitations that emphasize cooperative problem-solving, provide a rich exposure to the methods of physics and the basic analytical and scientific communication skills required by all scientists. Course covers mechanics, conservation laws, waves, and topics from thermal physics, fluids, acoustics, and materials physics. At the level of *Fundamentals of Physics*, Vol. I, seventh ed., by Halliday, Resnick, and Walker.

PHYS 208(2208) Fundamentals of Physics II (PBS)

Spring, 4 credits. Prerequisites: PHYS 207 or 112 or 101; substantial contact with introductory calculus (e.g., MATH 111, 190, or 191). 207–208 is a two-semester introduction to physics with emphasis on tools generally applicable in sciences, intended for students majoring in physical science, mathematics, or analytically oriented biological science.

Covers electricity and magnetism, and topics from geometrical and physical optics, quantum and nuclear physics. At the level of *Fundamentals of Physics*, Vol. II, seventh ed., by Halliday, Resnick, and Walker.

PHYS 213(2213) Physics II: Heat/Electromagnetism (PBS)

Fall, spring, summer (six-week session). 4 credits. Primarily for students of engineering and prospective physics majors. Prerequisite: PHYS 112 and MATH 192. Students co-registered in MATH 192, 221, or equivalent may enroll, but PHYS 213 employs some math concepts before their completion in these calculus courses. Fall, L. Gibbons; spring, Staff.

Topics include temperature, heat, the laws of thermodynamics, electrostatics, behavior of matter in electric fields, DC circuits, magnetic fields, Faraday's law, AC circuits, and electromagnetic waves. At the level of *University Physics*, Vols. 1 and 2, by Young and Freedman, 11th ed.

PHYS 214(2214) Physics III: Optics, Waves, and Particles (PBS)

Fall, spring, summer (six-week session). 4 credits. Primarily for engineering students and prospective physics majors. Prerequisites: PHYS 213 and MATH 293. Students co-registered in MATH 293, 222, or equivalent may enroll, but PHYS 214 employs some math concepts before their completion in these calculus courses. Fall, T. Arias; spring, staff.

Physics of oscillations and wave phenomena, mechanical waves, sound waves, electromagnetic waves, reflection and transmission of waves, interference and diffraction effects, transport of momentum and energy, wave properties of particles, and introduction to quantum physics. Course includes computer use in solving problems and labs. At the level of *University Physics*, Vols. 1-3, by Young and Freedman.

PHYS 216(2216) Introduction to Special Relativity

Fall, spring, weeks 5-7. 1 credit. Enrollment may be limited. Co-registration in this course is requirement for registration in PHYS 217, unless the student has taken a relativity course at level of PHYS 116 or ASTRO 106. Students cannot get credit for PHYS 216 if they have taken PHYS 116. Prerequisites: PHYS 112 or 207 or permission of instructor. S-U grades only. Fall, Staff; spring, Staff.

Introduction to Einstein's Theory of Special Relativity, including Galilean and Lorentz transformations, the concept of simultaneity, time dilation and Lorentz contraction, the relativistic transformations of velocity, momentum and energy, and relativistic invariance in the laws of physics. At the level of *An Introduction to Mechanics* by Kleppner and Kolenkow.

PHYS 217(2217) Physics II: Electricity and Magnetism (also A&EP 217[2170]) (PBS)

Fall, spring. 4 credits. Enrollment may be limited. Intended for students who have done very well in PHYS 112 or 116 and in mathematics and who desire more analytic treatment than that of PHYS 213. Prospective physics majors encouraged to register. Prerequisites: approval of student's advisor and permission of instructor. Corequisite: MATH 293 or equivalent. Placement quiz may be given early in semester, permitting students who find PHYS 217 too abstract or analytical to transfer into PHYS 213. Vector calculus is taught in this course, but previous contact, especially with the operations *grad*, *div*, and *curl*, is helpful. It is assumed the student has seen special relativity at level of PHYS 116 or is currently enrolled in PHYS 216 and that student has covered material of MATH 192. Fall, A. LeClair; spring, staff.

At the level of *Electricity and Magnetism*, Vol. 2, by Purcell (Berkeley Physics Series).

PHYS 218(2218) Physics III: Waves and Thermal Physics (PBS)

Fall, spring. 4 credits. Enrollment may be limited. Intended for students who have done very well in PHYS 116 and 217 and in mathematics and who desire more analytic treatment than that of PHYS 214. Prospective physics majors are encouraged to register. Prerequisites: PHYS 217 (with grade of B or higher) and course in differential equations or permission of instructor. Fall, D. Cassel; spring, M. Wang.

The first part of the course gives a thorough discussion of wave equations, including traveling waves, standing waves, energy, momentum, power, reflection and transmission, interference and diffraction. Derives wave equations on strings, sound, elastic media, and light. Covers solutions of these wave equations and Fourier series and transforms. The second part introduces thermodynamics and statistical mechanics, including heat engines, the Carnot cycle, and the concepts of temperature and entropy. Evening exams may be scheduled. At the level of *Physics of Waves* by Elmore and Heald.

PHYS 310(3310) Intermediate Experimental Physics (PBS)

Spring. 3 credits. Enrollment may be limited. Prerequisite: PHYS 208 or 213.

Students select from a variety of experiments. An individual, independent approach is encouraged. Facilities of the PHYS 410 lab are available for some experiments.

PHYS 314(3314) Intermediate Mechanics (PBS)

Spring. 4 credits. Prerequisites: PHYS 208 or 214 (or equivalent) and MATH 294 (or equivalent). Assumes prior introduction to linear algebra and Fourier analysis. Intended for physics majors with concentration outside of physics or astronomy; PHYS 318 covers similar material at more analytical level. J. C. Davis.

Likely topics include Lagrangian mechanics; Newtonian mechanics based on a variational principle; conservation laws from symmetries; two-body orbits due to a central force; analysis of scattering experiments; small amplitude oscillating systems including normal mode analysis; parametrically driven systems; rigid body motion; motion in non-inertial reference frames; and nonlinear behavior including bistability and chaos. Students not only become more familiar with analytic methods for solving problems in mechanics but also gain experience with computer tools. At the level of *Classical Dynamics* by Marion and Thornton.

PHYS 316(3316) Basics of Quantum Mechanics (PBS)

Fall, spring. 3 credits. Prerequisites: PHYS 214 or 218; PHYS 116 or 216; and co-registration in at least MATH 294 or equivalent. Assumes that majors registering in PHYS 316 will continue with PHYS 317. Fall, J. C. Davis; spring, G. Hoffstaetter.

Topics include breakdown of classical concepts in microphysics; light quanta and matter waves; Schrodinger equation and solutions for square well, harmonic oscillator, and the hydrogen atom; angular momentum, spin, and magnetic moments. At the level of *An Introduction to Quantum Physics* by French and Taylor.

PHYS 317(3317) Applications of Quantum Mechanics (PBS)

Fall. 3 credits. Prerequisite: PHYS 316. K. Schwab.

Covers a number of applications of quantum mechanics to topics in modern physics. Topics include: the physics of single and multi-electron atoms, quantum statistical mechanics, molecular structure, quantum theory of metals, band theory of solids, superconductivity, nuclear structure, radioactivity, nuclear reactions, and elementary particle physics.

PHYS 318(3318) Analytical Mechanics (PBS)

Spring. 4 credits. Prerequisites: PHYS 116 or permission of instructor; A&EP 321 or appropriate course(s) in mathematics. Intended for junior physics majors concentrating in physics or astronomy. PHYS 314 covers similar material at less demanding level. Assumes prior exposure to Fourier analysis, linear differential equations, linear algebra, and vector analysis. E. Flanagan.

Newtonian mechanics of particles and systems of particles, including rigid bodies; oscillating systems; gravitation and planetary motion; moving coordinate systems; Euler's equations; Lagrange and Hamilton formulations; normal modes and small vibrations; introduction to chaos. At the level of *Classical Mechanics* by Goldstein. *Classical Dynamics* by Marion and Thornton, and *Analytical Mechanics* by Hand and Finch. Supplementary reading is assigned.

PHYS 323(3323) Intermediate Electricity and Magnetism (PBS)

Fall. 4 credits. Prerequisites: PHYS 208 or 213/214 (or equivalent) and MATH 293/294 (or equivalent). Recommended: co-registration in A&EP 321 or appropriate mathematics course. Intended for physics majors with concentration outside of physics or astronomy; PHYS 327 covers similar material at more analytical level. C. Franck.

Topics include electro/magnetostatics, boundary value problems, dielectric and magnetic media, Maxwell's Equations, electromagnetic waves, including guided waves, and sources of electromagnetic radiation. At the level of *Introduction to Electrodynamics* by Griffiths.

PHYS 327(3327) Advanced Electricity and Magnetism (PBS)

Fall. 4 credits. Prerequisites: PHYS 217/218 or permission of instructor. Corequisite: A&EP 321 or appropriate mathematics course(s). Intended for physics majors concentrating in physics or astronomy. PHYS 323 covers similar material at less demanding level. Assumes knowledge of material at level of PHYS 217 and makes extensive use of vector calculus, and some use of Fourier transforms and complex variables. F. L. Hand.

Covers electro/magnetostatics, vector and scalar potentials, multipole expansion of the potential solutions to Laplace's Equation and boundary value problems; time-dependent electrodynamics; Maxwell's Equations, electromagnetic waves, reflection and refraction, wave guides, retarded potential, antennas; relativistic electrodynamics, four vectors, Lorentz, transformation of fields. At the level of *Classical Electromagnetic Radiation* by Heald and Marion.

PHYS 330(3330) Modern Experimental Optics (also A&EP 330[3300]) (PBS)

Fall. 4 credits. Limited enrollment.

Prerequisite: PHYS 214 or equivalent.

G. Hoffstaetter.

Practical laboratory course in basic and modern optics. The six projects cover a wide range of topics from geometrical optics to classical wave properties such as interference, diffraction, and polarization. Each experimental setup is equipped with standard, off-the-shelf optics and opto-mechanical components to provide the students with hands-on experience in practical laboratory techniques currently employed in physics, chemistry, biology, and engineering. Students are also introduced to digital imaging and image processing techniques. At the level of *Optics* by Hecht.

PHYS 341(3341) Thermodynamics and Statistical Physics (PBS)

Fall. 4 credits. Prerequisites: PHYS 214, 316, and MATH 294. I. Cohen.

Covers statistical physics, developing both thermodynamics and statistical mechanics simultaneously. Also covers concepts of temperature, laws of thermodynamics, entropy, thermodynamic relations, and free energy. Applications to phase equilibrium, multicomponent systems, chemical reactions, and thermodynamic cycles. Application of statistical mechanics to physical systems, and introduction to treatment of Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics with applications. Elementary transport theory. At the level of *Fundamentals of Statistical and Thermal Physics* by Reif.

PHYS 360(3360) Electronic Circuits (also A&EP 363[3630]) (PBS)

Fall, spring. 4 credits. Prerequisites: undergraduate course in electricity and magnetism (e.g., PHYS 208, 213, or 217) or permission of instructor. No previous electronics experience assumed, although course moves quickly through introductory topics such as basic dc circuits. Fall semester usually has smaller enrollment. S-U grade option available by permission of instructor for students who do not require course for major. Fall, E. Kirkland; spring, R. Thorne.

Practical electronics as encountered in a scientific or engineering research/development environment. Analyze, design, build, and test circuits using discrete components and integrated circuits. Analog circuits: resistors, capacitors, filters, operational amplifiers, feedback amplifiers, oscillators, comparators, passive and active filters, diodes and transistor switches and amplifiers. Digital circuits: combinational and sequential logic (gates, flip-flops, registers, counters, timers), analog to digital (ADC) and digital to analog (DAC) conversion, signal averaging, computer architecture and interfacing. Additional topics may include analog and digital signal processing, light wave communications, transducers, and noise reduction techniques. At the level of *Art of Electronics* by Horowitz and Hill.

PHYS 400(4400) Informal Advanced Laboratory

Fall, spring. 1-3 credits, variable.

Prerequisites: two years physics or permission of instructor. Fall, P. McEuen; spring, staff.

Experiments of widely varying difficulty in one or more areas, as listed under PHYS

410, may be done to fill the student's special requirements.

PHYS 410(4410) Advanced Experimental Physics (PBS)

Fall, spring. 4 credits. Prerequisite: senior standing or permission of instructor; PHYS 214 (or 310 or 360) plus 318 and 327, or permission of instructor. Fall, P. McEuen; spring, staff.

Selected topics in experimental concepts and techniques. About 60 different experiments are available in acoustics, optics, spectroscopy, electrical circuits, electronics and ionics, magnetic resonance, X-rays, low temperature, solid state, cosmic rays, and nuclear physics. The student performs three to four different experiments, depending on difficulty, selected to meet individual needs and interests. Independent work is stressed. Lectures are on experimental techniques used in experiments in the laboratory and on current research topics.

PHYS 443(4443) Intermediate Quantum Mechanics (PBS)

Spring. 4 credits. Prerequisites: PHYS 327 or 323; and PHYS 316 and A&EP 321 or appropriate mathematics course(s); co-registration in PHYS 314 or 318; or permission of instructor. Assumes prior experience in linear algebra, differential equations, and Fourier transforms. M. Neubert.

Provides an introduction to concepts and techniques of quantum mechanics, at the level of *An Introduction to Quantum Mechanics* by Griffiths.

PHYS 444(4444) Introduction to Particle Physics (PBS)

Spring. 4 credits. Prerequisite: PHYS 443 or permission of instructor. A. Ryd.

The standard model of particle physics; behavior of high-energy particles and radiation; elementary particles; basic properties of accelerators and detectors; general symmetries and conservation laws. At the level of *Introduction to Elementary Particles* by Griffiths or *Modern Elementary Particle Physics* by Kane.

PHYS 445(4445) Introduction to General Relativity (also ASTRO 445[4445]) (PBS)

Fall. 4 credits. Offered as alternative to more comprehensive, two-semester graduate sequence PHYS 553 and 554. E. Flanagan.

One-semester introduction to general relativity, which teaches physics concepts and phenomenology while keeping mathematical formalism to a minimum. General relativity is a fundamental cornerstone of physics that underlies several of the most exciting areas of current research. These areas include theoretical high-energy physics and the search for a quantum theory of gravity, relativistic astrophysics, and in particular, cosmology, where there have been several groundbreaking observations over the last few years. It uses the new textbook *Gravity: An Introduction to Einstein's General Relativity* by Hartle.

PHYS 454(4454) Introductory Solid-State Physics (also A&EP 450[4500]) (PBS)

Fall. 4 credits. Prerequisite: PHYS 443, A&EP 361, or CHEM 793 highly desirable but not required. F. Wise.

Introduction to modern solid-state physics, including crystal structure, lattice vibrations,

electron theory of metals and semiconductors, and selected topics from magnetic properties, optical properties, superconductivity, and defects. At the level of *Introduction to Solid State Physics* by Kittel and *Solid State Physics* by Ashcroft and Mermin.

PHYS 455(4455) Geometrical Concepts in Physics (PBS)

Spring. 4 credits. Prerequisite: PHYS 323 or equivalent and at least co-registration in PHYS 318 or permission of instructor.

Usually offered every other spring.

Most non-quantum physical theories are based on one or another form of geometry: Newtonian mechanics on Euclid, electromagnetism on Minkowski, general relativity on Riemann, string theory on higher dimensionality. This course surveys the unification of classical physics that accompanies the application of Hamilton's principle of least action to these various geometries. At the level of *A First Course in String Theory, Part I* by Zwiebach or *Geometric Mechanics* by Talman.

[PHYS 456(4456) Introduction to Accelerator Physics and Technology (also PHYS 656[7656]) (PBS)]

Fall. 3 credits. Prerequisites: PHYS 323 or 327 and PHYS 314 or 318. Next offered 2007-2008. G. Hoffstaetter.

Fundamental physical principles of particle accelerators and enabling technologies, with a focus on basic effects in linear and circular accelerators as high-energy physics colliders and x-ray sources.]

PHYS 480(4480) Computational Physics (also PHYS 680[7680], ASTRO 690[7690]) (PBS)

Spring. 3 credits. Assumes familiarity with standard mathematical methods for physical sciences and engineering, differential equations and linear algebra in particular and with computer programming in general (e.g., Fortran or C). S-U grades only. T. Arias.

Covers numerical methods for ordinary and partial differential equations, linear algebra and eigenvalue problems, nonlinear equations, and fast Fourier transforms and nonlinear optimization problems from the hands-on perspective of how they are used in modern computational research in the era of open software and the web. Depending on the instructor, the course emphasizes different areas of computational science. Emphasis ranges from general methods for tackling PDEs, including finite-difference and spectral methods, to developing students' own working ab initio computer program for calculating the properties of molecules and materials with the methods that won Walter Kohn and John Pople the Nobel Prize in Chemistry in 1998.

[PHYS 481(4481) Quantum Information Processing (also PHYS 681[7681], COM S 483[4812])]

Spring. 2 credits. S-U grades only.

Prerequisite: familiarity with theory of finite-dimensional vector spaces over complex numbers. Next offered 2007-2008.

A technology that successfully exploits fundamental principles of quantum physics can spectacularly alter both the nature of computation and the means available for the transmission of information.]

[PHYS 487(4487) Selected Topics in Accelerator Technology (also PHYS 687(7687))]

Fall. 2 credits. Prerequisite: PHYS 323 or 327. S-U grades only. Next offered 2008-2009.

Fundamentals of accelerator technology. Consists of a series of topical seminars covering the principal elements of accelerator technology.]

PHYS 488(4488) Advanced Topics in Accelerator Physics (also PHYS 688(7688))

Spring. 3 credits. S-U grades only. G. Hoffstaetter.

After an introduction to the history of particle accelerators and to their fundamental physical principles, special topics in accelerator physics will be covered. Such topics are: microwave structures and particle acceleration, linear and nonlinear beam dynamics, collective effects and beam instabilities, characteristics of synchrotron radiation and x-ray experiments, a project in storage ring design, and experiments with the beam in Cornell's storage ring CESR.

PHYS 490(4490) Independent Study in Physics

Fall or spring. Variable to 4 credits; max. of 8 credits may be applied to physics major. Prerequisite: permission of professor who will direct proposed work. Copy of Request for Independent Study form must be filed with physics department course coordinator, 121 Clark Hall. Individual project work (reading or laboratory) in any branch of physics.

PHYS 500(6500) Informal Graduate Laboratory

Fall, spring. Variable to 2 credits. Prerequisite: permission of instructor. Fall, P. McEuen; spring, staff.

Experiments of widely varying difficulty in one or more areas, as listed under PHYS 510, may be done to fill special requirements.

PHYS 510(6510) Advanced Experimental Physics

Fall, spring. 3 credits. Optional lec associated with PHYS 410 available M. Fall, P. McEuen; spring, staff.

About 60 different experiments are available in acoustics, optics, spectroscopy, electrical circuits, electronics and ionics, magnetic resonance, X-rays, low temperature, solid state, cosmic rays, and nuclear physics. Students perform three to four experiments selected to meet individual needs. Independent work is stressed. Lectures include techniques used in experiments in the advanced laboratory and on current research topics.

PHYS 520(6520) Projects in Experimental Physics

Fall, spring. Variable to 3 credits. Prerequisite: PHYS 510. To be supervised by faculty member. Students must advise department course coordinator of faculty member responsible for project.

Projects of modern topical interest that involve some independent development work by student. Opportunity for more initiative in experimental work than is possible in PHYS 510.

PHYS 525(6525) Physics of Black Holes, White Dwarfs, and Neutron Stars (also ASTRO 511(6511))

Spring. 4 credits. Prerequisite: none. D. Lai. For description, see ASTRO 511.

PHYS 553-554(6553-6554) General Relativity (also ASTRO 509-510(6509-6510))

553, fall; 554, spring. 4 credits. Prerequisite: knowledge of special relativity and methods of dynamics at level of *Classical Mechanics* by Goldstein. J. York.

Introductory study of Einstein's theory using methods of vector analysis, differential geometry, and tensor calculus. Topics include moving frames, connections and curvature, equivalence principle, variational principle, electrodynamics, hydrodynamics, thermodynamics, statistical mechanics in the presence of gravitational fields, special relativity from the viewpoint of GR, GR as a dynamical theory, and experimental tests of GR. At the level of *Gravitation* by Misner, Thorne, and Wheeler and *General Relativity* by Wald. Hartle's book *Gravity: An Introduction to Einstein's General Relativity* may also be useful. PHYS 554 is a continuation of 553, which emphasizes applications to astrophysics and cosmology. Topics include gravitational collapse and black holes, gravitational waves, elementary cosmology, and the use of active gravitational dynamics as a fundamental element of astrophysical and cosmological research.

PHYS 561(6561) Classical Electrodynamics

Fall. 3 credits. C. Csaki.

Covers Maxwell's equations, electromagnetic potentials, electrodynamics of continuous media (selected topics), special relativity, and radiation theory. The practical application of appropriate mathematical methods is emphasized. At the level of *Classical Electrodynamics* by Jackson.

PHYS 562(6562) Statistical Mechanics

Spring. 4 credits. Primarily for graduate students. Prerequisites: good knowledge of quantum mechanics, classical mechanics, and undergraduate-level thermodynamics or statistical mechanics class. J. Sethna.

Starts with the fundamental concepts of temperature, entropy, and free energy, defining the microcanonical, canonical, and grand canonical ensembles. Touches upon Markov chains, random walks, diffusion equations, and the fluctuation-dissipation theorem. Covers Bose-Einstein and Fermi statistics, black-body radiation, Bose condensation, superfluidity, metals, and white dwarves. Discusses fundamental descriptions of phases, and introduce Landau theory, topological order parameters, and the homotopy classification of defects. Briefly studies first-order phase transitions and critical droplet theory and concludes with a discussion of critical phenomena, scaling, universality, and the renormalization group.

PHYS 572(6572) Quantum Mechanics I

Fall. 4 credits. V. Elser.

Covers the general principles of quantum mechanics, formulated in the language of Dirac. Covers systems with few degrees of freedom such as hydrogen atom, including fine and hyperfine structure. Theory of angular momentum, symmetries, perturbations and collisions are developed to analyze phenomena displayed by these systems. At the level of *Quantum Mechanics: Fundamentals* by Gottfried and Yan. A knowledge of the subject at the level of PHYS 443 is assumed, but the course is self-contained.

PHYS 574(6574) Applications of Quantum Mechanics II

Spring. 4 credits. Knowledge of concepts and techniques covered in PHYS 561 and 572 and of statistical mechanics at undergraduate level assumed.

Possible topics include identical particles, many electron atoms, second quantization, quantization of the electromagnetic field, scattering of complex systems, radiative transitions, and introduction to the Dirac equation.

[PHYS 599(6599) Cosmology (also ASTRO 599(6599))]

Next offered 2007-2008.

For description, see ASTRO 599.]

PHYS 635(7635) Solid-State Physics I

Fall. 3 credits. Prerequisites: good undergraduate solid-state physics course (e.g., PHYS 454), as well as familiarity with graduate-level quantum mechanics. D. Ralph.

Survey of the physics of solids: crystal structures, x-ray diffraction, phonons, and electrons. Selected topics from semiconductors, magnetism, superconductivity, disordered materials, dielectric properties, and mesoscopic physics. The focus is to enable graduate research at the current frontiers of condensed matter physics.

PHYS 636(7636) Solid-State Physics II

Spring. 3 credits. Prerequisite: PHYS 635. P. Brouwer.

Continuation of PHYS 635. Topics from quantum condensed matter physics not included in that course, which may include Fermi Liquid Theory, magnetism, superconductivity, broken symmetries, elementary excitations, topological defects, superfluids, the quantum Hall effect, mesoscopic quantum transport theory, Anderson localization, and other metal insulator transitions.

[PHYS 645(7645) Topics in High-Energy Particle Physics]

Fall. 3 credits. Next offered 2007-2008.

Serves as an introduction to physics of baryons, mesons, and leptons.]

PHYS 646(7646) Topics in High-Energy Particle Physics

Spring. 3 credits. M. Neubert.

Covers topics of current interest, such as high-energy electron and neutrino interactions, electron positron annihilation, and high-energy hadronic reactions.

PHYS 651(7651) Relativistic Quantum Field Theory I

Fall. 3 credits. S-U grades only. M. Perelstein.

Topics include consequences of causality and Lorentz invariance, quantization of Klein-Gordon and Dirac fields, perturbation theory, Feynman diagrams, calculation of cross sections and decay rates, and an introduction to radiative corrections and renormalization with applications to electromagnetic and weak interactions.

PHYS 652(7652) Relativistic Quantum Field Theory II

Spring. 3 credits. S-U grades only. H. Tye.

A continuation of PHYS 651. Introduces more advanced methods and concepts in quantum field theory. Topics include renormalization, non-abelian gauge theories, functional integral methods, and quantization of non-abelian gauge theories, spontaneous symmetry

breaking, and anomalies. At the level of *An Introduction to Quantum Field Theory* by Peskin and Schroeder.

PHYS 653(7653) Statistical Physics

Fall. 3 credits. Prerequisites: quantum mechanics at level of PHYS 572, statistical physics at level of PHYS 562. S-U grades only. E. Mueller.

Survey of topics in modern statistical physics selected from phase transitions and the renormalization groups, linear response and fluctuations-dissipation theories; quantum statistical mechanics; and nonequilibrium statistical mechanics.

PHYS 654(7654) Theory of Many-Particle Systems

Spring. 3 credits. Prerequisites: PHYS 562, 574, 635, 636, and 653 or permission of instructor. S-U grades only. Staff.

Advanced topics in condensed-matter physics are taught by several members of the faculty. Past modules include random matrix theory, the quantum Hall effect, disordered systems and computational complexity, and asymptotic analysis. Future topics may include dilute cold gases and exotic quantum phenomena, thermodynamic Green's functions, $1/N$ expansions, density functional theory, instantons, dynamical mean-field theory, conformal field theory, Fermi liquid theory and superconductivity, localization and disordered metals, renormalization groups, duality transformations, Luttinger liquids, frustrated and quantum magnetism, and Chern-Simons gauge theory. Detailed course content will be announced at the end of the fall semester.

[PHYS 656(7656) Introduction to Accelerator Physics and Technology (also PHYS 456(4456))]

Next offered 2007–2008.
For description, see PHYS 456.]

[PHYS 661(7661) Advanced Topics in High-Energy Particle Theory]

Fall. 3 credits. Prerequisite: PHYS 652. S-U grades only. Next offered 2007–2008. H. Tye.

Presents advanced topics of current research interest. Subject matter varies from year to year. Some likely topics are two-dimensional conformal field theory with applications to string theory.]

PHYS 665(7665) Seminar: Astrophysics Gas Dynamics (also ASTRO 699(7699))

Fall. 2 credits. D. Lai.
For description, see ASTRO 699.

PHYS 667(7667) Theory of Stellar Structure and Evolution (also ASTRO 560(6560))

For description, see ASTRO 560.

PHYS 680(7680) Computational Physics (also PHYS 480(4480), ASTRO 690(7690))

For description, see PHYS 480.

PHYS 681–689(7681–7689) Special Topics

Offerings are announced each semester. Typical topics are group theory, analyticity in particle physics, weak interactions, superfluids, stellar evolution, surface physics, Monte Carlo methods, low-temperature physics, magnetic resonance, phase transitions, and the renormalization group.

[PHYS 681(7681) Quantum Information Processing (also PHYS 481(4481), COM S 483(4812))]

Next offered 2007–2008.
For description, see PHYS 481.]

PHYS 682(7682) Computational Methods for Nonlinear Systems (also CIS 629(6229))

Fall. 4 credits. Enrollment may be limited. J. Sethna and C. Myers.

Graduate computer laboratory, focusing on the next generation of tools for computation, simulation, and research in a broad range of fields of interest to the IGERT program and the Life Sciences Initiative. The course is pitched at a high level of computational sophistication, but is designed to fit into the busy schedules of first-year graduate students.

[PHYS 687(7687) Selected Topics in Accelerator Technology (also PHYS 487(4487))]

Next offered 2008–2009.
For description, see PHYS 487.]

PHYS 688(7688) Advanced Topics in Accelerator Physics (also PHYS 488(4488))

For description, see PHYS 488.

PHYS 690(7690) Independent Study in Physics

Fall or spring. Variable to 4 credits. Students must advise department course coordinator, 121 Clark Hall, of faculty member responsible for grading their project. S-U grades only.

Special graduate study in some branch of physics, either theoretical or experimental, under the direction of any professorial member of the staff.

POLISH

See "Department of Russian."

PORTUGUESE

See "Department of Romance Studies."

PSYCHOLOGY

D. J. Bem, S. L. Bem, M. Christiansen, J. E. Cutting, T. J. DeVoogd, D. A. Dunning, S. Edelman, M. Ferguson, D. J. Field, B. L. Finlay, T. D. Gilovich, M. Goldstein, B. P. Halpern, A. M. Isen, R. E. Johnston, C. L. Krumhansl, D. A. Levitsky, J. B. Maas, D. A. Pizarro, H. S. Porte, D. T. Regan, E. A. Regan, H. Segal, D. Smith, M. Spivey, B. J. Strupp, V. Zayas

The major areas of psychology represented in the department are perceptual and cognitive psychology, biopsychology, and personality and social psychology. These areas are very broadly defined, and the courses are quite diverse. Biopsychology includes animal learning, neuropsychology, interactions between hormones, other biochemical processes, and behavior. Perceptual and cognitive psychology includes such courses as cognition, perception, memory, and psycholinguistics. Personality and social psychology is represented by courses in social psychology and personality (e.g., Psychology and Law, Judgment and Decision

Making), as well as courses in fieldwork and psychopathology. In addition to the three major areas mentioned above, the department emphasizes the statistical and logical analysis of psychological data and problems.

The Major

Admission to the major is usually granted to any student in good standing in the college who has passed three or more psychology courses with grades of C+ or better. Provisional admission requires two such courses. To apply to the major and receive an advisor, a major application form may be obtained from the department office (211 Uris Hall) and should be completed and taken to one of the faculty members whose name is listed on the form.

Requirements for the major are:

1. a total of 40 credits in psychology (including prerequisites), from which students majoring in psychology are expected to choose, in consultation with their advisors, a range of courses that covers the basic processes in psychology (laboratory and/or field experience is recommended); and
2. demonstration of proficiency in statistics before the beginning of the senior year. (See the section below on the statistics requirement.)

Normally it is expected that all undergraduate psychology majors will take at least one course in each of the following three areas of psychology:

1. **Perceptual cognition and development**
2. **Behavioral and evolutionary neuro science (BEN)**
3. **Social, personality, and abnormal psychology**

The following classification of Department of Psychology offerings is intended to help students and their advisors choose courses that will ensure that such breadth is achieved.

1. **Perceptual cognition and development:** PSYCH 205, 209, 214, 215, 292, 305, 311, 316, 342, 412, 413, 414, 415, 416, 417, 418, 419, 436, 492.
2. **Behavioral and evolutionary neuro science:** PSYCH 223, 322, 324, 326, 332, 361, 396, 420, 422, 424, 425, 429, 431, 440, 492.
3. **Social, personality, and abnormal psychology:** PSYCH 265, 275, 280, 281, 325, 327, 328, 380, 385, 402, 404, 450, 481, 489, 491.
4. **Other courses:** PSYCH 101, 199, 347, 350, 410, 440, 441, 470, 471, 472, 473, 475, 478, 479. The major advisor determines to which group, if any, these courses may be applied.

With the permission of the advisor, courses in other departments may be accepted toward the major requirements.

Fieldwork, independent study, and teaching.

The department requires students to observe the following limits on fieldwork, independent study, and teaching.

1. Undergraduates may not serve as teaching assistants for psychology courses if they are serving as teaching assistants for any other course during the same semester.
2. An undergraduate psychology major cannot apply more than 12 of the credits

earned in independent study (including honors work) and fieldwork toward the 40 credits required by the major.

Statistics requirement. Proficiency in statistics can be demonstrated in any one of the several ways listed below.

1. Passing PSYCH 350.
2. Passing an approved course or course sequence in statistics in some other department at Cornell.
3. Passing a course or course sequence in statistics at some other college, university, or college-level summer school. The course or sequence must be equivalent to at least 6 semester credits. The description of the course from the college catalog and the title and author of the textbook used must be submitted to Professor Gilovich for approval.
4. Passing an exemption examination. This examination can be given at virtually any time during the academic year if the student gives notice at least one week before. Students who have completed a theoretical statistics course in a department of mathematics or engineering and who wish to demonstrate competence in applied statistics usually find this option the easiest. Students planning this option should discuss it in advance with Professor Gilovich.

Concentration in biopsychology. Psychology majors interested in psychology as a biological science can elect to specialize in biopsychology. Students in this concentration must meet all of the general requirements for the major in psychology and must also demonstrate a solid background in biology; the physical sciences, including at least introductory chemistry; and mathematics. Students will design with their advisors an integrated program in biopsychology built around courses on physiological, chemical, anatomical, and ecological determinants of human and nonhuman behavior offered by the Department of Psychology. Additional courses in physiology, anatomy, biochemistry, neurochemistry, neurobiology, and behavioral biology may be designated as part of the psychology major after consultation between the student and his or her biopsychology advisor.

Concentration in personality and social psychology. Psychology majors who wish to specialize in social psychology are expected to meet the general requirements set by their department, including statistics. To ensure a solid interdisciplinary grounding, students in the concentration are permitted to include some major courses in sociology and related fields. Advisors will assist students in the selection of a coherent set of courses from social organization, cultural anthropology, experimental psychology, social methodology, and several aspects of personality and social psychology. Seniors in the concentration may elect advanced and graduate seminars, with the permission of the instructor.

Undergraduate honors program. The honors program is designed for exceptional students who wish to pursue an intensive and independent program of research in psychology. Successful participation serves as evidence of the student's facility in the two most important skills required of an academic psychologist: namely, the capacity to acquire and integrate a substantial body of theoretical

and factual material and the ability to devise and execute a creative empirical research project.

The honors program offers students the closest contact and consultation with faculty they will likely experience while at Cornell, and all qualified majors who are planning graduate work in any academic field should consider applying. However, it should also be noted that conducting honors research and completing a thesis is an extremely demanding undertaking, both in time and effort. Due to the demands of both research and writing, it is expected that after the Christmas break, honors students will return to campus as early as possible to continue their work, as well as remain on campus through all of spring break.

The focus of the honors program is conducting an experiment, analyzing the data that result, and describing the project in a thesis that closely approximates a professional-level research report both in form and quality. The research project is to be conducted under the close sponsorship of a faculty member. Subject to approval, the sponsor need not be in the psychology department per se. Students that successfully complete the honors program graduate with one of levels of honors, which is noted on their diplomas. The customary level is cum laude, awarded to approximately two-thirds of psychology honors graduates. Approximately one-third receive the next higher level of honors, which is magna cum laude. A student who has both an unusually strong academic record in psychology and completes a thesis of exceptionally high quality will be considered for summa cum laude, the highest level of honors. However, those are unusual cases. The T. A. Ryan Award, accompanied by a cash prize, is awarded to the student who conducts the best honors project in a given year. Students in the program register for 3 or 4 credits of PSYCH 471 Independent Study in both fall and spring semesters. Format and binding of the thesis follows guidelines for the doctoral dissertation and master's thesis, outlined by the Cornell University Graduate School. Stylistic format is APA style. Alternative style formats are possible, if approved in advance.

Computing in the Arts Undergraduate Concentration

A concentration in Computing in the Arts with an emphasis on psychology is available both to psychology majors and to students majoring in other subjects. For more information, see pages ***

Courses

PSYCH 101(1101) Introduction to Psychology: The Frontiers of Psychological Inquiry (SBA)

Fall, summer (six-week). 3 credits.

Attendance at lec mandatory. Students who wish to take disc seminar should also enroll in PSYCH 103. M W F. J. B. Maas.

The study of human behavior. Topics include brain functioning and mind control, psychophysiology of sleep and dreaming, psychological testing, perception, learning, cognition, memory, language, motivation, personality, abnormal behavior, psychotherapy, social psychology, and other aspects of applied psychology. Emphasis is on developing skills to critically evaluate claims made about human behavior.

PSYCH 102(1200) Introduction to Cognitive Science (also COGST 101[1101], COM S 101[1710], LING 170[1170], PHIL 191[1910]) (KCM)

Fall, summer (six-week). 3 or 4 credits

(4-credit option involves writing sec instead of exams). T R. M. Spivey.

For description, see COGST 101.

PSYCH 103(1103) Introductory Psychology Seminars

Fall. 1 credit. Limited to 300 students.

Corequisite: PSYCH 101. 12 different time options. J. B. Maas and staff.

Weekly seminar that may be taken in addition to PSYCH 101 to provide an in-depth exploration of selected areas in the field of psychology. Involves extensive discussion and a semester paper related to the seminar topic. Choice of seminar topics and meeting times are available at the second lecture of PSYCH 101.

PSYCH 111(1110) Brain, Mind, and Behavior (also BIONB/COGST 111[1110]) (PBS)

Spring. 3 credits. Letter grades only.

Prerequisite: freshmen and sophomores in humanities and social sciences; juniors and seniors not allowed. Not recommended for psychology majors; biology majors may not use for credit toward major. M W F. E. Adkins Regan and R. Hoy.

For description, see COGST 111.

PSYCH 165(1650) Computing in the Arts (also COM S/CIS/ENGRI 165[1650], MUSIC 165[1465])

Fall. 3 credits. G. Bailey.

For description, see COM S 165.

PSYCH 201(2010) Cognitive Science in Context Laboratory (also COGST 201[2010], COM S 201[2710]) (KCM)

Spring. 4 credits. Limited to 24 students.

Prerequisite: PSYCH 102, COGST/COM S 101, LING 170, or PHIL 191. Knowledge of programming languages not assumed. Disc and demos, M W; lab, M W, plus additional hours TBA. 259 Uris Hall. D. Field and staff.

For description, see COGST 201.

PSYCH 205(2050) Perception (also PSYCH 605[6050])

Spring. 3 credits. Open to all students.

Graduate students, see PSYCH 605. T R.

J. E. Cutting.

One of four introductory courses in cognitive psychology. Basic perceptual concepts and phenomena are discussed with emphasis on stimulus variables and sensory mechanisms. All sensory modalities are considered. Visual and auditory perception are discussed in detail.

PSYCH 209(2090) Developmental Psychology (also PSYCH 709[7090]) (KCM)

Spring. 4 credits. Graduate students, see PSYCH 709. M W. M. Goldstein.

One of four introductory courses in cognition and perception. A comprehensive introduction to current thinking and research in developmental psychology that approaches problems from both psychobiological and cognitive perspectives. We will use a comparative approach to assess principles of development change. The course focuses on the development of perception, action, cognition, language and social understanding in infancy and early childhood.

PSYCH 214(2140) Cognitive Psychology
(also PSYCH 614[6140], COGST
214[2140], COGST 614[6140]) (KCM)

Fall. 3 credits. Limited to 175 students.

Prerequisite: sophomore standing.

Graduate students, see PSYCH 614. M W F. S. Edelman.

Introduces the idea of cognition as information processing or computation, using examples from perception, attention and consciousness, memory, language, and thinking. Participants acquire conceptual tools that are essential for following the current thought on the nature of mind and its relationship to the brain.

[PSYCH 215(2150) Psychology of Language (also COGST 215[2150], LING 215[2215]) (KCM)]

Spring. 3 credits. Prerequisites: sophomore, junior, or senior standing; any one course in psychology or human development.

Next offered 2007–2008. T R.

M. Christiansen.

Provides an introduction to the psychology of language. The purpose of the course is to introduce students to the scientific study of psycholinguistic phenomena. Covers a broad range of topics from psycholinguistics, including the origin of language, the different components of language (phonology, morphology, syntax, and semantics), processes involved in reading, computational modeling of language processes, the acquisition of language (both under normal and special circumstances), and the brain bases of language.]

PSYCH 223(2230) Introduction to Biopsychology (PBS: supplementary list)

Fall. 3 credits. Prerequisites: none. May be used to satisfy psychology major breadth requirement and as alternative prerequisite for upper-level biopsychology courses.

D. Smith.

Introduction to psychology from a biological perspective, including both evolutionary and physiological approaches to behavior. Topics include the structure and function of the nervous system, genetic and biochemical models of behavior, hormones and behavior, biological bases of learning, cognition, communication, and language, and the evolution of social organization.

Introductory courses in social and personality psychology. Each of the following three courses (265, 275, 280) provides an introduction to a major area of study within social and personality psychology. These courses are independent of one another, and none have any prerequisites. Students may take any one of the courses or any combination of them (including all three). Courses may be taken in any order or simultaneously.

PSYCH 231(2310) SSP: Borges and I: a Quest for Self-Knowledge (KCM)

Spring. 4 credits. Limited to 15 students. S. Edelman.

This seminar will survey the state of the art in theoretical neuroscience, a discipline whose ultimate goal is finding the mind in the brain. Our journey through the scientific literature on minds and brains, covering topics such as memory and identity, love, solitude and society, language, creativity, religion, and morality, will be accompanied by a choice of short stories by Jorge Luis Borges.

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars

Program. Seminars offer discipline-specific study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

[PSYCH 265(2650) Psychology and Law (SBA)]

Fall. 3 credits. M W F. Next offered 2007–2008. D. A. Dunning.

Examines the implications of psychological theory and methods for law and the criminal justice system. Concentrates on psychological research on legal topics (e.g., confession, eyewitness testimony, jury decision making, homicide, aggression, the prison system), social issues (e.g., death penalty, affirmative action), and on psychologists as participants in the legal system (e.g., assessing insanity and dangerousness and for expert testimony).]

[PSYCH 275(2750) Introduction to Personality Psychology (also HD 260[2600]) (SBA)]

Spring. 3 credits. Recommended: introductory psychology or human development. T R. Staff.

Designed as an introduction to theory and research in the area of personality psychology, including personality development. Covers the major influences on personality, including genetic, environmental, and gene-environment interactions. The assumptions and models of human behavior that form the basis of each theoretical orientation are examined and compared, and the relevant empirical evidence reviewed and evaluated. In addition, basic psychometric concepts and the methods for measuring and assessing personality are covered, as are the major related debates and controversies.]

PSYCH 280(2800) Introduction to Social Psychology (SBA)

Spring, summer (three-week). 3 credits. T R. T. D. Gilovich and D. T. Regan.

Introduction to research and theory in social psychology. Topics include social influence, persuasion, and attitude change; social interaction and group phenomena; altruism and aggression; stereotyping and prejudice; and everyday reasoning and judgment.

PSYCH 282(2820) Community Outreach (also HD 282[2820])

Fall. 2 credits. Prerequisites: PSYCH 101 or HD 115. T. H. Segal.

Provides students with information and perspectives essential to volunteer fieldwork with human and social service programs in the community. Readings are drawn from the field of community psychology and include analyses of successful programs, such as Head Start, as well as a review of the methods by which those programs are developed and assessed. Although students are not required to volunteer, the instructor provides students with a list of local agencies open to student placements.

PSYCH 305(3050) Visual Perception (also VISST 305[3305])

Fall. 4 credits. Limited to 25 students.

Prerequisite: PSYCH 205 or permission of instructor. M W F. J. E. Cutting.

Detailed examination of pictures and their comparison to the real world. Linear

perspective in Renaissance art, photography, cinema, and video is discussed in light of contemporary research in perception and cognition.

PSYCH 313(3130) Problematic Behavior in Adolescence (also HD 313[3130])

Fall. 3 credits. Prerequisite: HD 115 or PSYCH 101. Recommended: HD 216. M W. J. Haugaard.

For description, see HD 313.

[PSYCH 316(3160) Auditory Perception (also PSYCH 716[7160]) (KCM)]

Fall. 3 or 4 credits; 4-credit option involves lab project or paper. Limited to 30 students. Prerequisite: PSYCH 102, 205, 209, or 214 (or other psychology, linguistics, or biology courses by permission of instructor). Graduate students, see PSYCH 716. M W. Next offered 2007–2008. C. L. Krumhansl.

Covers the major topics in auditory perception including: physics of sound; structure and function of the auditory system; perception of loudness, pitch, and spatial location, with applications to speech production and perception; and music and environmental sounds.]

PSYCH 322(3220) Hormones and Behavior (also BIONB 322[3220], PSYCH 722[7220]) (PBS)

Fall. 3 credits. Two lec plus sec in which students read and discuss original papers in the field, give an oral presentation, and write a term paper. Prerequisites: junior or senior standing; any one of the following: PSYCH 223, BIONB 221 or 222, or one year introductory biology plus psychology course. Graduate students, see PSYCH 722. M W F. E. Adkins Regan.

Comparative and evolutionary approaches to the study of the relationship between reproductive hormones and sexual behavior in vertebrates, including humans. Also hormonal contributions to parental behavior, aggression, stress, learning and memory, and biological rhythms.

PSYCH 324(3240) Biopsychology Laboratory (also BIONB 324[3240]) (PBS)

Fall. 4 credits. Limited to 20 students. Prerequisites: junior or senior standing; PSYCH 223 or BIONB 221 or 222, and permission of instructor. T R. T. J. DeVoogd.

Experiments designed to provide experience in animal behavior (including learning) and its neural and hormonal mechanisms. A variety of techniques, animal species, and behavior patterns are included.

PSYCH 325(3250) Adult Psychopathology (also HD 370[3700]) (SBA)

Spring. 3 credits. Prerequisite: sophomore, junior, or senior standing; any one course in psychology or human development. T R. No S-U option. M W. H. Segal.

A theoretical and empirical approach to the biological, psychological, and social (including cultural and historical) aspects of adult psychopathology. Readings range from Freud to topics in psychopharmacology. The major mental illnesses are covered, including schizophrenia as well as mood, anxiety, and personality disorders. Childhood disorders are not covered.

PSYCH 326(3260) Evolution of Human Behavior (also PSYCH 626[6260]) (PBS: Supplementary List)

Spring. 4 credits. Prerequisite: PSYCH 223, or introductory biology, or introductory anthropology. Graduate students, see PSYCH 626. T. R. E. Johnston.

Broad comparative approach to the behavior of animals and humans with special emphasis on the evolution of human behavior. Topics vary but include some of the following: human evolution, evolutionary and sociobiological theory, animal communication, nonverbal communication, language, cognitive capacities, social behavior and organization, cooperation and altruism, sexual behavior, mating and marriage systems, aggression, and warfare.

PSYCH 327(3270) Field Practicum I (also HD 327[3270]) (SBA)

Fall only. 3 credits. Limited enrollment. Prerequisites: PSYCH 325 or HD 370 (or taken concurrently), and permission of instructor. Students must commit to taking PSYCH 328 in spring semester. Letter grades only. M. W. H. Segal.

Composed of three components that form an intensive undergraduate field practicum. First, students spend three to six hours a week at local mental health agencies, schools, or nursing facilities working directly with children, adolescents, or adults; supervision is provided by host agency staff. Second, the instructor provides additional weekly individual, clinical supervision for each student. Third, seminar meetings cover issues of adult and developmental psychopathology, clinical technique, case studies, and current research issues. Students write one short paper, two final take-home exams, and present an account of their field experience in class.

PSYCH 328(3280) Field Practicum II (also HD 328[3280]) (SBA)

Spring. 3 credits. Limited enrollment. Prerequisites: PSYCH 327 taken previous semester, PSYCH 325 or HD 370 (or taken concurrently), permission of instructor. Letter grades only. M. W. H. Segal.

Continues the field practicum experience from PSYCH 327.

PSYCH 330(3300) Introduction to Computational Neuroscience (also BIONB/COGST 330[3300]) (PBS)

Fall. 3 credits. Limited to 25 students. Prerequisite: BIONB 222 or permission of instructor. S-U grades optional. Offered alternate years. C. Linster.

For description, see BIONB 330.

PSYCH 332(3320) Biopsychology of Learning and Memory (also BIONB 328[3280], PSYCH 632[6320]) (PBS)

Spring. 3 credits. Limited to 60 students. Prerequisites: one year of biology and either a biopsychology course or BIONB 222. Graduate students, see PSYCH 632. M. W. F. T. J. DeVoogd.

Surveys the approaches that have been or are currently being used to understand the biological bases for learning and memory. Topics include invertebrate, "simple system" approaches, imprinting, avian song learning, hippocampal and cerebellar function, or research using fMRI pathology in humans. Many of the readings are from primary literature.

PSYCH 340(3400) Autobiographical Memory

Spring. 3 credits. Limited to 20 students. Prerequisites: any one course in psychology or human development. Staff.

Much recent research has focused on people's ability to remember—and often to misremember—their own life experiences. This course reviews that research, including such topics as "flashbulb" memories, "childhood amnesia," the development of memory in children, cultural differences, the "false memory syndrome," eyewitness testimony, prospective memory, sex differences, recall of school learning, the amnesic syndrome, and the relation between memory and self.

PSYCH 342(3420) Human Perception: Applications to Computer Graphics, Art, and Visual Display (also PSYCH 642[6420], COGST 342[3420], VISST 342[3422])

Fall. 3 or 4 credits; 4-credit option involves term paper. Highly recommended: PSYCH 205. Graduate students, see PSYCH 642. T. R. D. J. Field.

Our present technology allows us to transmit and display information through a variety of media. To make the most of these media channels, it is important to consider the limitations and abilities of the human observer. The course considers a number of applied aspects of human perception with an emphasis on the display of visual information. Topics include "three-dimensional" display systems, color theory, spatial and temporal limitations of the visual systems, attempts at subliminal communication, and "visual" effects in film and television.

PSYCH 347(3470) Psychology of Visual Communications (SBA)

Spring. 3 credits. Limited to 15 students. Prerequisites: PSYCH 101 and permission of instructor. R. J. B. Maas.

Exploration of theories of education, communication, perception, attitude, and behavior change as they relate to the effectiveness of visually based communication systems. Emphasis is on the use of photography and computer graphics to deliver educational messages. A digital camera with manual control of f-stops and shutter speed is mandatory.

PSYCH 350(3500) Statistics and Research Design (MQR)

Fall, summer (three-week). 4 credits. Limited to 120 students. M. W. F. Staff.

Acquaints the student with the elements of statistical description (e.g., measures of average, variation, correlation) and, more important, develops an understanding of statistical inference. Emphasis is placed on those statistical methods of principal relevance to psychology and related behavioral sciences.

[PSYCH 361(3610) Biopsychology of Normal and Abnormal Behavior (also NS 361[3610]) (PBS: Supplementary List)]

Spring. 3 credits. Limited to 50 students in psychology and 50 students in nutritional sciences. Prerequisites: junior or senior standing; introductory biology and introductory psychology or permission of instructor. S-U grades optional. M. W. F. Next offered 2007-2008. B. J. Strupp.

Critical evaluation of factors thought to underlie normal and abnormal behavior and/or cognitive functioning. Psychological, biological, and societal influences are integrated. Topics include the psychobiology of learning and memory; nutritional influences on behavior/cognition (e.g., sugar, food additives, choline); cognitive dysfunction (e.g., amnesia, Alzheimer's disease); developmental exposure to environmental toxins and

drugs of abuse; and psychiatric disorders (depression, eating disorders).]

PSYCH 380(3800) Social Cognition (SBA)

Fall. 3 credits. Prerequisites: junior or senior standing; PSYCH 280. T. R. M. Ferguson.

What are the causes and consequences of our own and other's judgments, feelings, attitudes, and behaviors? This course introduces students to social cognition, which is a research perspective that uses both cognitive and social psychological theories and methodologies to explain such social phenomena.

PSYCH 385(3850) The Psychology of Emotion (SBA)

Fall. 3 credits. D. Pizarro.

We've all been mad, sad, happy, and disgusted. Some of us get nostalgic at times, and some of us are easily embarrassed. We've been feeling these emotions nearly our whole lives, and this makes us all emotion experts of a sort. Nonetheless, these feelings can be mysterious. Where do they come from? Do people across all cultures experience similar emotions? How can we regulate our emotions? Do emotions make us less rational? Do they make us smarter? What triggers certain emotions? Are there gender differences in emotions? The science of emotion is fairly young, but there has been an enormous amount of progress in understanding emotional phenomena in the last few decades. In this course, we will tackle the aforementioned questions and more. By the end of the course you should be familiar with the most influential theories of emotion—from the evolutionary explanations of emotion to the developmental and social factors involved in making us emotional creatures. So while we are all intuitive experts on emotion, by the end of the course you will have a different kind of expertise—one grounded in the most recent scientific discoveries in this exciting field.

[PSYCH 396(3960) Introduction to Sensory Systems (also BIONB 396[3960]) (PBS)]

Spring. 4 credits. Limited to 35 students. Next offered 2009-2010. B. P. Halpern.

Somesthetic, auditory, and visual system neuroscience principles and methods of study are taught using the Socratic method. Original literature read and discussed.]

PSYCH 405(4050) Intuitive Judgment (SBA)

Fall. 4 credits. Limited to 18 students by application. Priority given to senior psychology majors. Prerequisites: at least one course in each of social and cognitive psychology. T. Gilovich.

Judgment pervades everyday experience. Can this person be trusted? Does this relationship have promise? Is the economy likely to flourish? This course examines how people answer such questions by examining—in depth—classic and contemporary scholarship on the subject. Readings are mostly primary sources.

PSYCH 410(4101) Undergraduate Seminar in Psychology

Fall or spring. 2 credits. Priority given to psychology majors. Staff.

Information on specific sections for each semester, including instructor, prerequisites, and time and place, may be obtained from the Department of Psychology office, 211 Uris Hall.

PSYCH 412(4120) Laboratory in Cognition and Perception (also PSYCH 612[6120]) (KCM)

Spring. 4 credits. Limited to 15 students. Prerequisite: statistics and one course in cognition or perception recommended. Graduate students, see PSYCH 612. M W. D. J. Field.

Laboratory course designed to introduce students to experimental methods in perception and cognitive psychology. Students take part in a number of classic experiments and develop at least one independent project. Computers are available and used in many of the experiments although computer literacy is not required. Projects are selected from the areas of visual perception, pattern recognition, memory, and concept learning.

[PSYCH 414(4140) Comparative Cognition (also PSYCH 714[7140], COGST 414[4140]) (KCM)]

Spring. 3 or 4 credits; 4-credit option involves annotated bibliography or creation of relevant web site. Prerequisites: PSYCH 205, 209, 214, 223, 292 or permission of instructor. Graduate students, see PSYCH 714. T R. Next offered 2007–2008. Staff.

Examines some of the conceptual and empirical work resulting from and fueling the recent surge of interest in animals' thinking. Specific topics may include whether nonhumans behave intentionally; whether they show concept and category learning, memory, and abstract thinking similar to that of humans; the role of social cognition in the evolution of intelligence; and whether animals are conscious or self-aware. Evidence from communication studies in which animal signals provide a "window on the mind" plays a strong role in the deliberations, including studies of naturally occurring signaling in various species and experiments in which nonhumans are trained in human-like language behavior. Cognition in nonhuman primates is a specific focus throughout. The course is a mix of lecture and discussion, emphasizing the latter as much as possible.]

PSYCH 416(4160) Modeling Perception and Cognition (also PSYCH 616[6160], COGST 416[4160])

Spring. 4 credits. Prerequisites: PSYCH 205, 209, 214, or 215, or permission of instructor. Graduate students, see PSYCH 616. M W F. M. Spivey.

Offers a survey of several computational approaches to understanding perception and cognition. Explores linear systems analysis, connectionist models, dynamical systems, and production systems, to name a few. Emphasis is placed on how complex sensory information gets represented in these models, as well as how it gets processed. Covers computational accounts of language processing, language acquisition, visual perception, and visual development, among other topics. Students complete a final project that applies a computational model to some perceptual/cognitive phenomena.

PSYCH 418(4180) Psychology of Music (also MUSIC 418[4181], PSYCH 618[6180]) (KCM)

Spring. 3 or 4 credits, depending on whether student elects to do independent project. Intended for upper-level students in music, psychology, engineering, computer science, linguistics, physics, anthropology, biology, and related disciplines. Some music background desirable but no specific musical skills

required. Graduate students, see PSYCH 618. M W. C. L. Krumhansl.

Covers the major topics in the psychology of music treated from a scientific perspective. Reviews recent developments in the cognitive science of music, beginning with music acoustics and synthesis, and extending to music and its emotional and social effects.

[PSYCH 424(4240) Neuroethology (also BIONB 424[4240]) (PBS)]

Spring. 4 credits. Prerequisites: BIONB 221 or 222 or BIO G 101–102 and permission of instructor. S-U grades optional. M W F; disc, one hour each week. Next offered 2007–2008. C. D. Hopkins.

For description, see BIONB 424.]

PSYCH 425(4250) Cognitive Neuroscience (also BIONB 423[4230], PSYCH 625[6250]) (KCM)

Fall. 4 credits. Prerequisites: introductory biology; biopsychology or neurobiology (e.g., PSYCH 223 or BIONB 221); and introductory course in perception, cognition, or language (e.g., PSYCH 102, 209, 214, or 215). Graduate students, see PSYCH 625. S-U grades optional. M W F. Offered alternate years. B. L. Finlay.

Studies the relationship between structure and function in the central nervous system. Stresses the importance of evolutionary and mechanistic approaches for understanding the human behavior and cognition. Focuses on issues in cognitive neuroscience, including mechanisms of perception, particularly vision, and the neuropsychology of everyday acts involving complex cognitive skills such as recognition of individuals, navigation in the world, language, memory, social interaction, and consciousness.

PSYCH 426(4260) Learning Language (also PSYCH 726, COGST 426)

Spring. 4 credits. Prerequisite: PSYCH 214 or permission of instructor. Letter grades only. S. Edelman.

A survey of a promising new synthesis in the understanding of the cognitive function that is at the core of the human nature: language. The material focuses on two aspects of the study of language: (1) psycholinguistic data and their interpretation, and (2) algorithmic studies and computational modeling. In psycholinguistics, students will read key papers that shed light on the nature of linguistic knowledge ("grammar") possessed by normal adult speakers, and on the learning of this knowledge by children. In computation, the focus is on learning grammar from raw data. The common thread to this course is realism: in psycholinguistics, we shall consider only those results obtained empirically by established psychological procedures (as opposed to intuition, either of experts or of lay speakers); in computation, the only approaches of interest to us are those that are algorithmically tractable, and that are effective when applied to realistic data

[PSYCH 427(4270) Evolution of Language (also COGST 427[4270], PSYCH 627[6270])]

Fall. 3 credits. Prerequisite: junior or senior standing; any one course in psychology or human development. Graduate students, see PSYCH 627. S-U grades optional.

Offered alternate years; next offered 2007–2008. M. Christiansen.

Seminar surveying a cross-section of modern theories, methods, and research pertaining to the origin and evolution of language. Considers evidence from psychology,

the cognitive neurosciences, comparative psychology, and computational modeling of evolutionary processes. Topics for discussion may include: What does the fossil record tell us about language evolution? What can we learn from comparative perspectives on neurobiology and behavior? Can apes really learn language? Did language come about through natural selection? What were the potential preadaptations for language? What is the relationship between phylogeny and ontogeny?]

[PSYCH 428(4280) Connectionist Psycholinguistics (also COGST 428[4280], PSYCH 628[6280])]

Fall. 3 credits. Prerequisite: senior standing or permission of instructor. Graduate students, see PSYCH 628. Offered alternate years; next offered 2008–2009. T. M. Christiansen.

Connectionist psycholinguistics involves using (artificial) "neural" networks, which are inspired by brain architecture, to model empirical data on the acquisition and processing of language. As such, connectionist psycholinguistics has had a far-reaching impact on language research. This course surveys the state of the art of connectionist psycholinguistics, ranging from speech processing and word recognition, to inflectional morphology, sentence processing, language production and reading. An important focus of discussion is the methodological and theoretical issues related to computational modeling of psychological data. Furthermore, the course discusses the broader implications of connectionist models of language, not only for psycholinguistics, but also for computational and linguistic perspectives on language.]

[PSYCH 429(4290) Olfaction and Taste: Structure and Function (also BIONB 429[4290], PSYCH 629[6290]) (PBS)]

Spring. 4 credits. Next offered 2007–2008. B. Halpern.

Explores structural and functional characteristics of smelling and tasting by reading and discussing current literature in these areas, using the Socratic method.]

PSYCH 430(4300) Moral Reasoning (also PSYCH 630[6300])

Spring. 4 credits. Prerequisites: open to junior and senior psychology majors and to graduate students; open to others by permission of instructor. D. Pizarro.

In recent years there has been a resurgence of interest in the science of morality. Recently, scientists across a wide range of disciplines have made discoveries that bear on the question of how and why humans have a sense of morality. The goals of this course are to offer an introduction to the science behind our moral sense. In order to achieve this goal, we will read articles on almost every area of scientific psychology. By the end of the course you should be well versed in the primary issues and debates involved in the scientific study of morality.

PSYCH 431(4310) Effects of Aging on Sensory and Perceptual Systems (also PSYCH 631[6310], BIONB 421[4210]) (PBS)]

Fall. 3 or 4 credits; 4-credit option involves term paper or creation of relevant web site. Limited to 35 students. Prerequisites: introductory biology or psychology, plus second course in perception, neuroscience, cognitive science. Graduate students, see PSYCH 631. T R. B. P. Halpern.

Literature-based examination of post-maturation changes in the perceptual, structural, and physiological characteristics of somesthetic, visual, auditory, and chemosensory systems. Emphasis is on human data, with nonhuman information included when especially relevant. Quality of life issues are included. Current developments in human sensory prosthetic devices, and in regeneration or replacement of receptor structures or organs are examined. Brief written statements by e-mail of questions and problems related to each set of assigned readings are required in advance of each class meeting and are automatically distributed to all members of the class. This course is taught using the Socratic method, in which the instructor asks questions of the students. Students read, analyze, and discuss in class difficult original literature dealing with the subject matter of the course. Readings are from Internet sites, a course packet, materials on reserve, and from the course Blackboard site. Students are expected to come to each class having already done and thought about the assigned readings, and to take an active part in every class. All examinations are take-home.

PSYCH 435(4350) Olfaction, Pheromones, and Behavior

Fall. 4 credits. Prerequisites: introductory biology and course in neurobiology and behavior or biopsychology or 300-level course in biopsychology or permission of instructor. R. Johnston.

Covers chemical signals, olfaction, and behavior in vertebrates (including humans), as well as the neurobiology of olfaction and odor-mediated behaviors. Behavioral topics may vary from year to year but include evaluation of and advertisement for mates, aggression and territorial behavior, parental-young interactions, social recognition (species, sex, individual, kin reproductive state, status), memory for odors, odor and endocrine interactions, imprinting, and homing and navigation. Basic aspects of the structure and function of the olfactory system are also covered, including the molecular biology of chemo-reception, olfactory coding, and higher-order processing in the central nervous system. The format includes lectures, discussions, and student presentations.

PSYCH 436(4360) Language Development (also COGST 436[4360], HD 337[3370], LING 436[4436]) (KCM)

Spring. 4 credits. Open to undergraduate and graduate students. Graduate students should also enroll under HD 633/LING 700/PSYCH 600, supplemental graduate seminar. Prerequisite: at least one course in developmental psychology, cognitive psychology, cognitive development, or linguistics. S-U grades optional. T. R. B. Lust.

For description, see COGST 436.

PSYCH 437(4370) Lab Course: Language Development (also COGST 450[4500], LING 450[4500], HD 437[4370]) (in conjunction with COGST 436[4360], HD 339[4360], LING 436[4436], Language Development)

Spring. 2 credits. R. B. Lust.

Optional supplement to the survey course Language Development (HD 337/COGST/PSYCH/LING 436). Provides students with a hands-on introduction to scientific research,

including design and methods, in the area of first-language acquisition.

PSYCH 440(4400) The Brain and Sleep (also PSYCH 640[6400])

Fall. 4 credits. Prerequisites: at least PSYCH 223 or BIONB 221. Recommended: additional course in biology, biopsychology, or neurobiology. S-U grades optional. Graduate students, see PSYCH 640. M. W. H. S. Porte.

Taking a comparative evolutionary perspective, this course examines the neural events that instigate, maintain, and disturb the states and rhythms of sleep in various species. Emphasizing human data where possible, special topics include sleep deprivation and the biological functions of sleep; biologically interesting deviations from normal sleep; and the cognitive neuroscience of sleep, including sleep's possible role in learning and memory.

PSYCH 441(4410) Laboratory in Sleep Research (also PSYCH 642[6420])

Spring. 4 credits. Lab fee: \$50. Graduate students, see PSYCH 641. W. H. S. Porte.

Emphasizing the neurobiology of sleep state, this course introduces students to the laboratory study of human sleep and its psychological correlates. Serving as both experimenter and subject, each student learns the physical rationale and techniques of electroencephalography and other bioelectric measures of behavioral state. Using computerized data analysis, students complete weekly laboratory reports and a collaborative term project. Sleep recordings are done during the day or evening when possible. In addition, overnight recording sessions are required.

PSYCH 452(4520) Trauma and Treatment (also PSYCH 652[6520]) (SBA)

Fall. 4 credits. Limited to 12 students; priority given to senior psychology and human development majors. Prerequisite: course work in both psychopathology and social development; permission of instructor by e-mail application during preregistration. Letter grades only. S. Bem.

An in-depth examination of psychological trauma and its treatment in psychotherapy. Special attention is given to the neuroscience of danger, defense, and emotional dysregulation, the effects of early traumatic attachment on development, the key role of dissociation, and an array of treatments including dialectical behavior therapy, play therapy, sensorimotor therapy, gestalt therapy, and psychoanalytic therapy.

[PSYCH 465(4650) Topics in High-Level Vision (also COGST 465[4650], PSYCH 665[6650]) (KCM)]

Spring. 4 credits. Graduate students, see PSYCH 665. Offered alternate years; next offered 2007-2008. S. Edelman.

High-level vision is a field of study concerned with functions such as visual object recognition and categorization, scene understanding, and reasoning about visual structure. It is an essentially cross-disciplinary endeavor, drawing on concepts and methods from neuroanatomy and neurophysiology, cognitive psychology, applied mathematics, computer science, and philosophy. This course concentrates on a critical examination of a collection of research publications, linked by a common thread, from the diverse perspectives offered by the different disciplines. Students write biweekly commentaries on the assigned papers and a term paper integrating the material covered in class.

PSYCH 470(4700) Undergraduate Research in Psychology

Fall or spring. 1-4 credits. Prerequisite: written permission from staff member who will supervise the work and assign grade must be included with course enrollment material. Students should enroll in section listed for that staff member; section list available from Department of Psychology. S-U grades optional. Staff.

Practice in planning, conducting, and reporting independent laboratory, field, and/or library research.

PSYCH 471(4710) Advanced Undergraduate Research in Psychology

Fall or spring. 1-4 credits. Prerequisite: written permission of staff member who will supervise work and assign grade must be included with course enrollment material. Students should enroll in section listed for that staff member; sec list available from Department of Psychology. S-U grades optional. Staff.

Advanced experience in planning, conducting, and reporting independent laboratory, field, and/or library research. One, and preferably two, semesters of PSYCH 470 is required. The research should be more independent and/or involve more demanding technical skills than that carried out in PSYCH 470.

PSYCH 472(4720) Multiple Regression

Spring, weeks 1-7. 2 credits. Prerequisite: one solid semester of introductory statistics. Recommended: analysis of variance. M. W. F. Staff.

Covers uses and pitfalls of multiple regression in causal analysis, path analysis, and prediction. Emphasis is on analyzing data collected under uncontrolled conditions. Includes collinearity, indicator variables, sets, adjusted and shrunken R^2 , suppressors, hierarchical analysis, overcontrol, and experimental design. Students may use the Minitab, SPSS, Stata, SAS, or Systat statistics packages.

PSYCH 473(4730) General Linear Model

Spring, weeks 8-14. 2 credits. Prerequisite: PSYCH 472 or equivalent. M. W. F. Staff.

Topics include multicategorical variables, corrections for multiple tests, diagnostic methods, nonlinear relationships, interaction, main and simple effects, and basic power analysis. Student may use Minitab, SPSS, Stata, SAS, or Systat.

PSYCH 478(4780) Parenting and Child Development (also PSYCH 678[6780], HD 444[4440]) (KCM)

Fall. 4 credits. Limited to 25 students.

Intended for seniors and graduate students. Graduate students, see PSYCH 678. M. W. M. Goldstein.

Explores the influence of parenting skills and styles on the development of infants and children. By studying parents and their infants together, the family can be viewed as a system in which the members engage in reciprocal stimulation and regulation of learning and behavior. Patterns of interaction within a family serve as a source of developmental change in infants. Such a system is influenced by internal and external forces. This course examines internal factors such as the biology of parenting and mechanisms of social learning in infants. Also studies the influence of external factors on family life, such as socioeconomic status and changes in family structure (e.g. single vs. dual parenting). Finally, it examines and evaluates the role of

public policies and intervention strategies that impact parents and children.

PSYCH 481(4810) Advanced Social Psychology (also PSYCH 681[6810])

Fall. 4 credits. Limited to 15 students, by application. Priority given to senior psychology majors. Graduate students, see PSYCH 681. T R. D. T. Regan.

Selected topics in social psychology are examined in depth with an emphasis on the relationship between experimental research and the development of theory. Readings are mostly primary sources. Among the theoretical approaches to social behavior we may discuss are social comparison theory, cognitive dissonance, attribution processes and social judgment, dramaturgy and impression management, and evolutionary perspectives.

PSYCH 482(4820) Automaticity (also PSYCH 682[6820]) (SBA)

Spring. 4 credits. Prerequisites: PSYCH 280; at least one course in cognitive psychology or permission of instructor. R. M. Ferguson.

What is automaticity? This is a topic that has gained considerable momentum in social psychology over the past 10 to 15 years and has been broadly applied to classic social psychological phenomena, including judgments, attitudes, emotion, motivation, and behavior. The crux of this momentum has been the controversial argument that such phenomena can occur without a person's awareness, intention, effort, or control. Although there is an abundance of empirical work on this topic, there still remain a number of unanswered and interesting questions. The objective of the course is twofold. The first is for students to learn the automaticity literature in social psychology; the second is to identify such critical questions, and speculate on possible answers. The course reviews the wide range of theoretical and empirical work on automaticity and examines contemporary definitions of automaticity within social and other areas of psychology. The analysis of automaticity is necessarily closely linked with issues such as unconscious vs. conscious processing, attention, control, intentionality, and free will.

PSYCH 489(4890) Seminar: Beliefs, Attitudes, and Ideologies (also PSYCH 689[6890], FGSS 488[4880]) (CA)

Fall. 4 credits. Prerequisites: admission by application during spring pre-registration period for fall semester. Priority given to juniors, seniors, and graduate students. M. D. J. Bem.

Course in cultural analysis examining the properties of beliefs and attitudes, how they are formed and changed, the psychological functions they serve, and how they get organized into ideologies. Several specific issues involved in America's "culture wars" are examined, such as abortion, gender, sexual orientation, and affirmative action. Other topics include deaf culture, utilitarian ethics, and the ideology of science. Participants write weekly commentaries on the readings and a term paper examining a particular ideology.

PSYCH 491(4910) Research Methods in Psychology (also COGST 491[4910], PSYCH/COGST 691[6910])

Spring. 4 credits. Limited to 20 students. Recommended: permission of instructor, PSYCH 350, upper-division psychology courses, or graduate standing. Graduate students, see PSYCH 691. T R. D. A. Dunning.

An intensive examination of the basic research methods used in social, personality, cognitive, and developmental psychology. The course focuses on designing and conducting experiments, i.e., how to turn vague theories into concrete and testable notions, evaluate studies, avoid common pitfalls, and, finally, remain ethical. Beyond learning methods of "correct" and rigorous experimentation, students also discuss what makes a research study interesting. The course in addition, covers test construction, survey methods, and "quasi experiments." Students concentrate on completing a small research project in which they conduct an experiment, interpret its data, and write up the results.

PSYCH 492(4920) Sensory Function (also BIONB 492[4920], PSYCH 692[6920]) (PBS)

Spring. 4 credits. Limited to 25 students. Prerequisite: 300-level neuroscience course, or BIONB 222 or BIOAP 311, or equivalent; knowledge of elementary physics, chemistry, and behavior. S-U grades optional. Graduate students, see PSYCH 692. M W F. Offered alternate years. B. P. Halpern and H. C. Howland.

In general, this course has covered classical topics in sensory function such as vision, hearing, touch, and balance, as well as some more modern topics like sensory processing, location of stimulus sources in space, the development of sensory system, and nonclassical topics such as electroreception and internal chemoreceptors.

Advanced Courses and Seminars

Advanced seminars are primarily for graduate students, but with the permission of the instructor they may be taken by qualified undergraduates. The selection of seminars to be offered each semester is determined by the needs of the students.

A supplement describing these advanced seminars is available at the beginning of each semester and can be obtained from the department office (211 Uris Hall). The following courses may be offered either semester and carry 4 credits unless otherwise indicated.

PSYCH 510-511(6100-6110) Perception

PSYCH 512-514(6120) Visual Perception

PSYCH 518(6181) Topics in Psycholinguistics

PSYCH 519-520(6830) Affects and Cognition (also NRE 507)

Fall. 4 credits. A. M. Isen.

PSYCH 521(6210) Behavioral and Brain Sciences

Fall and spring. 4 credits each semester.

PSYCH 522(6220) Topics in Perception and Cognition

PSYCH 523(6230) Hormones and Behavior

PSYCH 527(6270) Topics in Biopsychology

[PSYCH 530(6300) Structure in Vision and Language (also COGST 530[6300], LING 530[5530], COM S 393)

Spring. 4 credits. Graduate seminar. Limited to 20 graduate students. Prerequisites: graduate standing; course each in cognitive psychology, linguistics,

computer science, or permission of instructor. Offered alternate years; next offered 2007-2008. S. Edelman.

One of the central puzzles of cognition is the manner in which brains deal with structured information such as scenes composed of a variety of objects, or sentences composed of words and phrases. The processing of structure by the brain is constrained by the neuronal architecture, as well as by general principles of information processing that are studied in computer science. This course focuses on insights from these different disciplines, striving for understanding couched in abstract computational terms, yet compatible with the basic neurobiological constraints, with behavioral data, and with philosophical intuition.]

PSYCH 535(6350) Evolutionary Perspectives on Behavior

PSYCH 541(6410) Statistics in Current Psychological Research

[PSYCH 550(6500) Special Topics in Cognitive Science (also COGST 550)]

Spring. 4 credits. Next offered 2007-2008. M. Spivey.]

PSYCH 580(6800) Experimental Social Psychology

PSYCH 600(6000) General Research Seminar

Fall or spring. 0 credits.

PSYCH 605(6050) Perception (also PSYCH 205[2050])

Spring. 4 credits. Non-arts graduate students only. T R. J. E. Cutting.

PSYCH 612(6120) Laboratory in Cognition and Perception (also PSYCH 412[4120])

Spring. 4 credits. M W. D. J. Field.

PSYCH 613(3150) Obesity and the Regulation of Body Weight (also NS 315[3150])

Spring. 3 credits. Limited to 30 students. Prerequisites: one course each in psychology and nutrition; undergraduates by permission of instructor. S-U grades optional. Offered alternate years. T R. D. A. Levitsky.

Multidisciplinary discussion of the causes, effects, and treatments of human obesity. Topics include the biopsychology of eating behavior, the genetics of obesity, the role of activity and energy metabolism, psychosocial determinants of obesity, anorexia nervosa, therapy and its effectiveness, and social discrimination.

PSYCH 614(6140) Cognitive Psychology (also PSYCH 214[2140], COGST 214[2140], COGST 614[6140])

Fall. 3 credits. M W. F. S. Edelman.

PSYCH 616(6160) Modeling Perception and Cognition (also PSYCH 416[4160], COGST 416[4160])

Spring. 4 credits. M. Spivey.

PSYCH 618(6180) Psychology of Music (also PSYCH 418[4180], MUSIC 418[4181])

Spring. 4 credits. M W. C. Krumhansl.

PSYCH 625(6250) Cognitive Neuroscience (also PSYCH 425[4250])

Fall. 4 credits. M W. F. B. L. Finlay.

PSYCH 626(6260) Evolution of Human Behavior (also PSYCH 326[3260])
Spring. 4 credits. T R. R. E. Johnston.

[PSYCH 627(6270) Evolution of Language (also COGST/PSYCH 427[4270])]
Fall. 3 credits. Next offered 2007-2008.
M. Christiansen.]

[PSYCH 628(6280) Connectionist Psycholinguistics (also PSYCH 428[4280], COGST 428[4280])]
Fall. 3 credits. Next offered 2008-2009.
W. M. Christiansen.]

[PSYCH 629(6290) Olfaction and Taste: Structure and Function (also PSYCH/BIONB 429[4290])]
Spring. 4 credits. T R. Next offered 2007-2008. B. P. Halpern.]

PSYCH 630(6300) Moral Reasoning
Spring. 4 credits. T R. D. Pizarro.

PSYCH 631(6310) Effects of Aging on Sensory and Perceptual Systems (also PSYCH 431[4310], BIONB 421[4210])
Fall. 4 credits. T R. B. P. Halpern.

PSYCH 632(6320) Biopsychology of Learning and Memory (also PSYCH 332[3320], BIONB 328[3280])
Spring. 4 credits. M W F. T. J. DeVoogd.

PSYCH 640(6400) The Brain and Sleep (also PSYCH 440[4400])
Fall. 4 credits. M W. H. S. Porte.

PSYCH 641(6410) Laboratory in Sleep Research (also PSYCH 441[4410])
Spring. 4 credits. W. H. S. Porte.

PSYCH 642(6420) Human Perception: Applications to Computer Graphics, Art, and Visual Display (also PSYCH/COGST 342[3420], VISST 342[3342])
Fall. 4 credits. T R. D. J. Field.

PSYCH 652(6520) Trauma and Treatment (also PSYCH 452[4520])
Fall. 4 credits. S. Bem.

[PSYCH 665(6650) Topics in High-Level Vision (also PSYCH 465[4650], COGST 465[4650], COM S 392[4110])]
Spring. 4 credits. Next offered 2007-2008.
S. Edelman.]

PSYCH 678(6780) Parenting and Child Development (also PSYCH 478[4780], HD 444[4440])
Fall. 4 credits. M. Goldstein.

PSYCH 681(6810) Advanced Social Psychology (also PSYCH 481[4810])
Fall. 4 credits. T R. D. T. Regan.

PSYCH 682(6820) Automaticity (also PSYCH 482[4820])
Spring. 4 credits. R. M. Ferguson.

PSYCH 689(6890) Seminar: Beliefs, Attitudes, and Ideologies (also PSYCH 489[4890])
Fall. 4 credits. M. D. J. Bem.

PSYCH 691(6910) Research Methods in Psychology (also PSYCH 491[4910], COGST 491[4910])
Spring. 4 credits. T R. D. A. Dunning.

PSYCH 692(6920) Sensory Function (also PSYCH/BIONB 492[4920])
Spring. 4 credits. M W F. B. P. Halpern and H. C. Howland.

[PSYCH 696(6960) Introduction to Sensory Systems (also PSYCH/BIONB 396[3960])]
Spring. 4 credits. M W F. Next offered 2009-2010. B. P. Halpern.]

PSYCH 700(7000) Research in Biopsychology

PSYCH 709(7090) Developmental Psychology (also PSYCH 209[2090])
Spring. 4 credits. M W. M. Goldstein.

PSYCH 710(7100) Research in Human Experimental Psychology

PSYCH 713(7130) Information Processing: Conscious and Nonconscious
Spring. 4 credits. R. Staff.

[PSYCH 714(7140) Comparative Cognition (also PSYCH/COGST 414[4140])]
Spring. 4 credits. T R. Next offered 2007-2008. Staff.]

[PSYCH 716(7160) Auditory Perception (also PSYCH 316[3160])]
Fall. 4 credits. M W. Next offered 2007-2008. C. L. Krumhansl.]

PSYCH 720(7200) Research in Social Psychology and Personality

PSYCH 722(7220) Hormones and Behavior (also PSYCH/BIONB 322[3220])
Fall. 4 credits. M W F. E. A. Regan.

PSYCH 726(7260) Learning Language (also PSYCH/COGST 426)
Spring. 4 credits. S. Edelman.

PSYCH 775(7750) Proseminar in Social Psychology I

Fall. 2 credits. Limited to 10 students.
Prerequisite: graduate students in social psychology; permission of instructors.
D. Dunning, M. Ferguson, T. Gilovich, D. Pizarro, and D. Regan.
First semester of a yearlong discussion-seminar course intended to give graduate students an in-depth understanding of current research and theory in social psychology. Emphasizes social cognition, but other topics, such as group dynamics, social influence, the social psychology of language, and emotional experience, are covered.

PSYCH 776(7760) Proseminar in Social Psychology II

Spring. 2 credits. Limited to 10 students.
Prerequisite: graduate students in social psychology; permission of instructors.
D. A. Dunning, M. Ferguson, T. D. Gilovich, D. Pizarro, and D. T. Regan.
Second semester of a yearlong discussion-seminar course intended to give graduate students an in-depth understanding of current research and theory in social psychology. Emphasizes social cognition, but other topics, such as group dynamics, social influence, the social psychology of language, and emotional experience are covered.

PSYCH 900(9000) Doctoral Thesis Research in Biopsychology

PSYCH 910(9100) Doctoral Thesis Research in Human Experimental Psychology

PSYCH 920(9200) Doctoral Thesis Research in Social Psychology and Personality

Summer Session Courses

The following courses are also frequently offered in the summer session, though not necessarily by the same instructor as during the academic year. Not all of these courses are offered in a particular summer. Information regarding these courses and additional summer session offerings in psychology is available from the department before the end of the fall semester.

PSYCH 101 Introduction to Psychology: The Frontiers of Psychological Inquiry

PSYCH 102 Introduction to Cognitive Science

PSYCH 128 Introduction to Psychology: Personality and Social Behavior

PSYCH 199 Sports Psychology

PSYCH 223 Introduction to Biopsychology

PSYCH 280 Introduction to Social Psychology

PSYCH 350 Statistics and Research Design

QUECHUA

See "Romance Studies."

RELIGIOUS STUDIES MAJOR

D. Boucher, director; A. Blackburn, R. Brann, C. M. Carmichael, K. Clinton, J. Fajans, D. Fredericksen, D. Gold, S. Greene, K. Haines-Eitzen, J. S. Henderson, T. D. Hill, D. Holmberg, P. R. Hyams, C. V. Kaske, W. J. Kennedy, J. M. Law, S. MacDonald, K. S. March, L. Monroe, R. L. Moore, D. I. Owen, D. S. Powers, C. Robinson, P. S. Sangren, S. Toorawa, M. Washington, A. Willford

The Religious Studies Program, an academic unit providing a major in the scholarly study of religion, offers a wide variety of courses addressing various approaches to, and topics in, the study of religion.

The Religious Studies Program is designed to meet the needs of three classes of students: (1) students planning to pursue advanced degrees in the academic study of religion or allied disciplines or subdisciplines (e.g., history of religions, religion and literature, religion and psychology, ethics, theology, area studies); (2) students seeking courses on topics relating to religion to fulfill distribution requirements; and (3) students desiring a more systematic exposure to the academic study of religion as a significant component of a liberal arts education. To all students, our program offers an excellent opportunity to develop a deeper understanding and appreciation of the complex ways in which religious traditions inform human thought and behavior. The courses offered through our program are built on the established scholarly tradition of the study of religion as an academic, as opposed to confessional, pursuit. Religious traditions are explored in all of their complexity through comparative, contextual (in specific historical or cultural contexts), and thematic studies.

The program also hosts lecture series, conferences, symposia, and periodic social gatherings for faculty members and students throughout the academic year to foster a sense of intellectual community.

The Major in Religious Studies

Signing into the major: To sign into the major in Religious Studies, a student must have completed at least one course in Religious Studies before scheduling an appointment with the program director. Here is the process:

1. Schedule an appointment with the director of the Religious Studies Program, whose name and e-mail address can be found on the Religious Studies web site.
2. In addition to a copy of the current Cornell transcript (the informal one students regularly receive is acceptable), students should bring to their meeting with the director all of these forms, available in the Religious Studies office, 409 White Hall:
 - a. a completed Religious Studies major application form
 - b. a proposed "course of study," which will be used as a guide in the student's conversation with the director and revised for formal submission to the program upon your entrance as a major
 - c. a College of Arts and Sciences advisor/major form, which will be signed by the director and advisor. The advisor will be assigned in the student's meeting with the director based on interest.

Advising in the Religious Studies Program:

Upon entering the major in Religious Studies, a student is assigned a faculty advisor whose area of expertise most closely matches the proposed interest of the student. An up-to-date approved advisor list is available in the Religious Studies office. Note that not all faculty members who cross-list courses with RELST can serve as RELST advisors. Working closely with one's RELST advisor when selecting courses is an important component of this program, enabling students to fulfill the requirements for the major while creating an integrated and coherent course of study out of our large number of multidisciplinary course offerings.

To graduate as a major in Religious Studies, a student must (1) complete with letter grades the program's three core courses, RELST 250 Introduction to Asian Religions, RELST 251 Introduction to Judaism, Christianity, and Islam, and RELST 449 History and Methods of the Academic Study of Religion; and (2) complete with letter grades seven additional courses approved for the major.

Students must complete 10 courses cross-listed with Religious Studies:

Three Core Courses:

RELST 250 Introduction to Asian Religions

RELST 251 Introduction to Judaism, Christianity, and Islam

RELST 449 History, Theory, and Methods in the Academic Study of Religion

The requirement for either or both RELST 250/251 may be satisfied by taking two or more courses in the relevant traditions with some attention to breadth:

The requirement for RELST 250 may be satisfied by taking at least one course on South Asian traditions AND one course on East Asian traditions.

The requirement for RELST 251 may be satisfied by taking at least one course in each of two or more of the traditions of Near Eastern origin (Judaism, Christianity, and Islam).

Absolutely no student will be exempted from RELST 449.

Seven Additional Courses

In selecting their additional courses for the major, students are expected to consult closely with their advisors to ensure that their programs have adequate breadth in Religious Studies generally and depth in a particular tradition, cultural area, or approach to the field.

Most courses approved for the major are offered by cooperating departments within the College of Arts and Sciences. A comprehensive up-to-date list of these courses is maintained at the office of the Religious Studies Program, 409 White Hall.

Graduating with Honors in Religious Studies:

GENERAL INFORMATION

1. **Eligibility.** 3.0 cumulative average and 3.5 average inside the major with no grade in the major below B-. Program director notifies eligible candidates during the spring semester of the junior year or before commencement of final year.
2. **Honors Courses.** Candidates must sign into RELST 495 Senior Honors Essay for 8 credits (two courses) for two semesters. After the first semester, an R in the transcript indicates that this course (usually for 8 credits) is a yearlong course. When the project is completed at the end of the second semester, the grade recorded counts for all 8 credits. (The 8-credit limit is the result of the conviction/belief that earning more than 8 credits for a single "piece" of one's undergraduate education is unwise.)

The student submits the honors proposal (with and according to the program's instruction/cover sheet) to the Religious Studies administrator before the end of the spring semester of the junior year, or not later than Sept. 15 of the final year. The administrator then approves the student's signing into the honors courses.

3. **Honors Committee—three faculty members.** While students are required to have three faculty members on their committee at the time of the submission of the final draft, only two of them must be identified when the proposal is submitted. In the event the advisor is on leave, the program will assign a committee member from the list of approved RELST advisors. The three members should be:
 - a. The professor who has agreed to work closely with the student over the year and to be the supervisor/grader of the project is chair of the committee.
 - b. The student's Religious Studies major advisor (required)
 - c. Another knowledgeable faculty member
 Sometimes the advisor is the supervisor/chair. If that is the case, the student needs two additional knowledgeable professors for the committee of three.

Courses Approved for the Major Sponsored by Religious Studies

RELST 133-134(1211-1212) Introduction to Qur'anic and Classical Arabic (also NES 133-134[1211-1212])

133, fall; 134, spring. 4 credits. M. Younes. For description, see NES 133-134.

[RELST 202(2105) The Greek New Testament (also CLASS 202[2105])

Spring. 3 credits. Prerequisites: at least one year of Ancient Greek (CLASS 101-103 or 104, or permission of instructor). Next offered 2008-2009. E. Rebillard. For description, see CLASS 202.]

[RELST 211(2110) SSP: Black Religious Traditions: Sacred and Secular (also AM ST 251[2110], HIST 211[2110])

Fall. 4 credits. Next offered 2007-2008. M. Washington. For description, see HIST 211.]

RELST 214(2212) Qur'an and Commentary (also NES 214[2212])

Spring. 3 credits. D. Powers. For description, see NES 214.

RELST 215(2150) SSP: Crusade, Heresy, and Inquisition in the Medieval Mediterranean (also HIST 214[2141]) (CA)

Spring. 4 credits. Limited to 15 students. P. Hyams. For description, see HIST 214.

RELST 223(2623) Introduction to the Hebrew Bible (also NES/JWST 223[2623])

Fall. 3 credits. L. Monroe. For description, see NES 223.

RELST 226(2646) Atheism Then and Now (also CLASS 226[2646])

Spring. 3 credits. J. Coleman. For description, see CLASS 226.

[RELST 237(2607) Greek Religion and Mystery Cults (also CLASS 237[2607])

Spring. 3 credits. Next offered 2007-2008. K. Clinton. For description, see CLASS 237.]

RELST 242(2420) Religion and Politics in American History (also HIST/AM ST 242[2420])

Spring. 4 credits. Sophomore seminar. Limited to 15 students. Prerequisite: permission of instructor. R. L. Moore. For description, see HIST 242.

RELST 244(2644) Introduction to Ancient Judaism (also NES/JWST 244[2644])

Spring. 3 credits. L. Monroe. For description, see NES 244.

RELST 250(2250) Introduction to Asian Religions (also ASIAN 250[2250])

Spring. 3 credits. J. M. Law. For description, see ASIAN 250.

RELST 251(2651) Holy War, Crusade, and Jihad (also HIST 269[2691], NES 251[2651], JWST 251[2651])

Fall. 3 credits. R. Brann. For description, see NES 251.

RELST 255(2655) Introduction to Islamic Civilization (also NES 255[2655], HIST 253[2530])

Fall. 3 credits. D. Powers. For description, see NES 255.

RELST 261(2662) Daily Life in the Biblical World (also ARKEO 260[2662], JWST/NES 262[2662])

Fall. 3 credits. J. Zorn.
For description, see NES 262.

RELST 262(2630) Religion and Reason (also PHIL 263[2630])

Spring. 4 credits. S. MacDonald.
For description, see PHIL 263.

RELST 265(2565) SSP: Law, Society, and Culture in the Middle East (also NES 265[2565], HIST 222[2220])

Spring. 3 credits. D. Powers.
For description, see NES 265.

RELST 266(2666) Jerusalem Through the Ages (also NES/JWST/ARKEO 266[2666])

Spring. 3 credits. J. Zorn.
For description, see NES 266.

RELST 277(2277) Meditation in Indian Culture (also ASIAN 277[2277])

Spring. 3 credits. D. Gold.
For description, see ASIAN 277.

RELST 326(3260) Christianity and Judaism (also COM L 326[3260])

Spring. 4 credits. C. Carmichael.
For description, see COM L 326.

RELST 328(3280) Literature of Old Testament (also COM L 328[3280])

Fall. 4 credits. C. Carmichael.
For description, see COM L 328.

[RELST 332(3644) Sages and Saints/Ancient World (also HIST 338[3644], CLASS 332[3644]) (HA)]

Spring. 4 credits. Next offered 2008-2009.
E. Rebillard.
For description, see CLASS 332.]

[RELST 333(3643) Greek and Roman Mystery Cults and Early Christianity (also CLASS 333[3643])]

Fall. 4 credits. Next offered 2007-2008.
K. Clinton.
For description, see CLASS 333.]

[RELST 347(3347) Tantric Traditions (also ASIAN 347[3347])]

Fall. 4 credits. Next offered 2007-2008.
D. Gold.]

[RELST 348(3348) Indian Devotional Poetry (also ASIAN 348[3348])]

Spring. 4 credits. Next offered 2007-2008.
D. Gold.]

RELST 351(3351) Indian Religious Worlds (also ASIAN 351[3351])

Fall. 4 credits. D. Gold.
For description, see ASIAN 351.

[RELST 354(3354) Indian Buddhism (also RELST 654[6654], ASIAN 354/654[3354/6654])]

Fall. 4 credits. Next offered 2007-2008.
D. Boucher.]

RELST 355(3355) Japanese Religions: A Study of Practice (also ASIAN 355[3355])

Fall. 4 credits. J. M. Law.
For description, see ASIAN 355.

[RELST 359(3359) Japanese Buddhism (also ASIAN 359[3359])]

Spring. 4 credits. Next offered 2007-2008.
J. M. Law.
For description, see ASIAN 359.]

RELST 368(3680) Marriage and Sexuality in Medieval Europe (also HIST/FGSS 368[3680])

Fall. 4 credits. P. Hyams.
For description, see HIST 368.

[RELST 405(4665) Augustine's Confessions (also CLASS 405[4665])]

Spring. 4 credits. Next offered 2008-2009.
C. Brittain.
For description, see CLASS 405.]

RELST 410(4100) Latin Philosophical Texts (also PHIL 410[4100])

Spring. Variable credit. Prerequisite: knowledge of Latin and permission of instructor. Staff.
For description, see PHIL 410.

RELST 420(4720) Biblical Hebrew Prose—Joshua (also NES/JWST 420[4720])

Fall. 4 credits. L. Monroe.
For description, see NES 420.

[RELST 421(4421) Religious Reflections on the Human Body (also ASIAN 421[4421])]

Spring. 4 credits. Next offered 2008-2009.
J. M. Law.
For description, see ASIAN 421.]

RELST 424(4240) The Sexual Politics of Religion (also FGSS 429/629) (CA)

Spring. 4 credits. L. Ramberg.
For description, see FGSS 429.

RELST 426(4260) New Testament Seminar (also COM L 426[4260])

Spring. 4 credits. C. Carmichael.
For description, see COM L 426.

RELST 427(4280) Biblical Seminar (also COM L 428[4280])

Fall. 4 credits. C. Carmichael.
For description, see COM L 428.

[RELST 429(4290) Adam's Rib and Other Divine Signs: Reading Biblical Narrative (also ENGL 429[4290])]

Spring. 4 credits. Next offered 2007-2008.
L. Donaldson.]

[RELST 441(4441) Mahayana Buddhism (also ASIAN 441[4441])]

Spring. 4 credits. Next offered 2007-2008.
D. Boucher.]

RELST 445(4545) Gender, Sex, and Body—Late Antiquity (also NES 445[4545], FGSS 447[4470]) (CA)

Fall. 4 credits. K. Haines-Eitzen.
For description, see NES 445.

RELST 449(4449) History and Methods of the Academic Study of Religion (also ASIAN 449[4449])

Spring. 4 credits. Requirement for Religious Studies majors. D. Boucher.
For description, see ASIAN 449.

[RELST 450(4500) Rescreening the Holocaust (also GERST 449[4490], COM L 453[4530])]

Fall. 4 credits. Next offered 2008-2009.
D. Bathrick.
For description, see THETR 450.]

RELST 457(4657) Formation of Islamic Law (also NES 457[4657], HIST 453[4530])

Fall. 4 credits. D. Powers.
For description, see NES 457.

RELST 460(4460) Indian Meditation Texts (also ASIAN 460[4460])

Fall. 4 credits. D. Gold.
For description, see ASIAN 460.

[RELST 475(4625) Christianization/Roman World (also CLASS 475[4625], HIST 483[4831])]

Fall. 3 credits. Next offered 2008-2009.
E. Rebillard.
For description, see CLASS 475.]

RELST 489(4489) Religion and Sustainability (also ASIAN 489) (CA)

Fall. 4 credits. J. M. Law.
For description, see ASIAN 489.

RELST 490-491(4990-4991) Directed Study

490, fall; 491, spring. 2-4 credits each semester. For majors in Religious Studies; permission of director required. Staff.

RELST 495(4995) Senior Honors Essay

Fall and spring (two semesters). 8 credits. Requirement for honors in Religious Studies. Staff.

[RELST 650(6650) Seminar on Asian Religions (also ASIAN 650[6650])]

Fall. 4 credits. Limited to 10 students. Prerequisite: graduate standing. Reading knowledge of modern Japanese desirable. Next offered 2007-2008. J. M. Law.
For description, see ASIAN 650.]

[RELST 654(6654) Indian Buddhism (also RELST 354[3354], ASIAN 354/654[3354/6654])]

Fall. 4 credits. Next offered 2007-2008.
D. Boucher.
For description, see ASIAN 354/654.]

Additional courses offered by cooperating departments may also be approved through petition for the major in Religious Studies. For details see the program director, whose name and e-mail address can be found on the Religious Studies web site.

ROMANCE STUDIES

T. Alkire, S. Amigo-Silvestre, M. Arellano, I. Auffret, M. Baraldi, K. Bättig von Wittelsbach, A. Berger, B. Bosteels, T. Campbell, F. Cervesi, D. Castillo (chair), E. Dozier (associate chair for language instruction), C. Dye, M. A. Garcés, M. Greenberg, L. Horne, C. Howie, Z. Iguina, R. Klein, C. Lawless, P. Lewis, S. LoBello, K. Long, J. Luks, N. Maldonado-Méndez, T. McNulty, L. Meza-Riedewald, M. Migiel, L. Morató-Peña, J. Oliveira, J. E. Paz-Soldán (director of graduate study), S. Pinet, K. Proux-García, M. K. Redmond, J. R. Resina, J. M. Rodríguez-García, J. Routier-Pucci, E. Sánchez-Blake, C. Sparfel, S. Stewart-Steinberg, A. Stratakis-Tiód, M. Stycos, B. Teutli, S. Tun, M. C. Vallois, C. Waldron. Emeriti: C. Morón Arroyo, J. Béraud, A. Colby-Hall, N. Furman, A. Grossvogel, D. I. Grossvogel, A. Seznec. Adjunct Associate Professor: S. Tarrow. Visiting: L. Dubreuil, J. A. Hernandez, L. Ferri

The Department of Romance Studies offers courses in the following areas: Catalan, French, Hispanic, Italian, and Luso-Brazilian literatures; Catalan, French, Italian, Portuguese, Quechua, and Spanish language; Francophone, Italian, Luso-Brazilian, and Hispanic cultures; and linguistics and semiotics. Through its course

offerings and opportunities for independent study, the department seeks to encourage study of the interactions of the Romance literatures among themselves, with other literatures, and with other fields of inquiry.

Catalan

CATAL 121-122(1210-1220) Elementary Catalan

121, fall; 122, spring. 4 credits each semester. 121 must be taken before 122. Recommended: knowledge of another Romance language. Fall: A. Puig-Herz; spring: W. Viestenz.

Catalan is a Romance language spoken by some 10 million people in four European states (Andorra, France, Italy, and Spain). This course provides a thorough grounding in all language skills: speaking, listening, reading, and writing, and is designed to provide students with the basis for establishing linguistic contact with Catalan culture.

French

T. Alkire, A. Berger, C. Dye, M. Greenberg, C. Howie, R. Klein, P. Lewis, S. LoBello, K. Long, J. Luks, T. McNulty, K. Proux-Garcia, C. Sparfel, S. Tun, M. C. Vallois, C. Waldron. Emeriti: J. Béreaud, A. Colby-Hall, N. Furman, D. I. Grossvogel, A. Seznec. Adjunct Associate Professor: S. Tarrow. Visiting: L. Dubreuil, L. Ferri

The Major

The major in French is divided into two options: French cultural studies and French literature. While prospective majors should try to plan their programs as far ahead as possible, especially if they intend to study abroad, no student will be refused admission to the major merely because of a late start. See the director of undergraduate studies, Professor Kathleen Long (kp12@cornell.edu), 320 Morrill Hall. This consultation is especially important for finding out what sequence of courses will follow the current choice of courses.

We are currently not admitting new students to the French linguistics major. Students having such interests should apply for admission through the field of linguistics. Courses in general Romance linguistics are offered.

French Literature

This option is designed to give students mastery of the oral and written language, as well as knowledge and understanding of French and Francophone literatures and cultures, and to develop their skills in literary analysis.

To be admitted to the major, a student should have completed FRLIT 221 and FRROM 219 or equivalent.

To complete the major, a student must:

1. Acquire advanced knowledge of and competence in French language. This competence is demonstrated by the successful completion of FRROM 301 Advanced French I or FRROM 305 French through Film (**only one may be taken for credit) or a properly accredited study abroad or the passing of a special language test (the CASE examination) or the permission of the major advisor or of the director of undergraduate studies.

2. Take the two core courses for the major: FRLIT 321 Readings in Modern French Literature and Culture; FRLIT 322 Readings in Early Modern French Literature and Culture.
3. Take five or more additional courses at the 300-level or above, including
 - One course on Francophone Literature or culture
 - One course on French Literature or culture pre-1789
 - One course at the 400-level
 - Three courses conducted in French (i.e., no more than two courses conducted in English may be counted toward the major), and
 - Up to two courses offered by a department other than Romance Studies (for example Comparative Literature, History, Linguistics, Philosophy, Art History, or Visual Studies), provided the course includes a significant (at least 50 percent) French component.

French Cultural Studies

This option is designed to give students mastery of the oral and written language, as well as a broader knowledge of French and Francophone culture in an interdisciplinary context.

To be admitted to the major, a student should have completed FRLIT 221 and FRROM 219 or equivalent.

To complete the major, a student must

- Acquire advanced knowledge of and competence in French language. This competence is demonstrated by the successful completion of FRROM 301 Advanced French I or FRROM 305 French through Film (**only one may be taken for credit), or a properly accredited study abroad or the passing of a special language test (the CASE examination) or the permission of the major advisor or of the director of undergraduate studies.
- Take one of the core courses for the major: FRLIT 320 Introduction to the 21st Century; FRLIT 321 Readings in Modern French Literature and Culture, or FRLIT 325 Being French (all may be taken for credit, but only one is required)
- Take six or more additional courses at the 300-level or above, including
 1. One course on French literature or culture pre-1789
 2. One course at the 400-level
 3. Three courses offered by the Department of Romance Studies
 4. Three courses conducted in French (i.e., no more than three courses conducted in English may be counted toward the major) and
 5. Up to three courses offered by a department other than Romance Studies (for example History, Government, Philosophy, Art History, Comparative Literature, or Visual Studies), provided the courses includes a significant (at least 50%) French component.

Administration of the French Major

Students are admitted to the major by the director of undergraduate studies in the French section of the Department of Romance Studies but are guided by their individual advisors. A copy of each student's program is given to the director of undergraduate studies for approval and safe-keeping.

Concentration in French Studies

At Cornell, a concentration is the functional equivalent of a minor. Its purpose is to supplement a student's major with a complementary focus or concentration that is indicated on the graduate's transcript. The concentration in French Studies, organized by the interdisciplinary Program in French Studies, is designed to be compatible with all kinds of majors and is open to students in all the undergraduate colleges. The concentration promotes broad understanding of French culture, as well as Francophone literatures, societies, and their political/economic systems; it also encourages students to refine and practice their language skills. Students pursuing the concentration must attain proficiency (by taking a placement exam or completing a 200-level course in French) and must take the core course The French Experience (FRLIT 224 or HIST 270) or an approved equivalent of the core course (approved alternatives will be listed on the program web site). Students may also petition the program director to use an advanced course conducted in French as their core course. Completion of the concentration requires, in addition to the core, three non-language courses on French and Francophone topics. Only one of the four courses required for the concentration can be taken S-U.

Applications for the concentration are accessible at the French Studies web site, www.einaudi.cornell.edu/french_studies/about/index.asp and should be submitted to the Institute for European Studies (120 Uris Hall) or to Bonnie Bailey at bab3@cornell.edu.

Study Abroad in France

French majors or other interested students may study in France for one or two semesters during their junior year. Opting for one of several study-abroad plans recognized by the Departments of Romance Studies and Linguistics facilitates the transfer of credit. Information about these plans is available from the director of undergraduate studies.

Students must be Cornell undergraduates with a strong academic record. The minimum French preparation is the completion of FRROM 219 or its equivalent in advanced credit or placement by the Cornell CASE examination. Taking FRROM 301 and/or 312 is, however, strongly recommended.

Students interested in studying in France are encouraged to consider the special benefits offered by EDUCO, the program in Paris cosponsored by Cornell, by Emory, and by Duke University. EDUCO offers advanced students a challenging course of study and the experience of total immersion in French life and culture in Paris. Participants in this program spend the year or semester as fully matriculated students at the University of Paris VII and other institutions of higher learning in Paris, including the Institut d'Etudes Politiques (Sciences Po), selecting courses in many fields from the regular university course offerings.

Students begin the academic year with an intensive three-week orientation in French history, society and daily life. While it is possible to enroll in the EDUCO Program for one semester, admission will be given first to students planning to study abroad for the full academic year.

EDUCO maintains a center in Paris with appropriate support staff. The resident director, chosen annually from the Cornell, Emory, and Duke faculties, teaches a special seminar each semester, provides academic advice, and helps ensure the quality of the courses. The center, which includes a small library and word-processing facilities, is regularly used by students for special tutorials, seminars, and lectures, as well as informal gatherings.

Honors. The honors program encourages well-qualified students majoring in French literature and culture to do independent work in French outside the structure of courses. The preparation of the senior honors essay, generally spread over two semesters, provides a unique learning opportunity, since it allows for wide reading and extensive rewriting to a degree not possible in the case of course papers.

To be eligible for honors, students must have a general grade point average of at least 3.00 and a grade point average of at least 3.5 in the French major.

No special seminars or courses are required of honors students, but they will have regular meetings with the faculty advisors who have agreed to supervise their work. They may receive course credit by enrolling in FRLIT 429-430, but these independent study courses must be taken in addition to the courses that meet the minimum requirements for the major. At the end of the senior year, each honors student is examined orally on the honors essay by a jury consisting of his or her faculty advisor and two other faculty members. The senior essay is to be made available for reading by the jury on or before April 15. The awarding of honors is determined by the student's grades in the major and the quality of the honors essay.

Language

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance at the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

Note: Students placed in the 200-level courses have the option of taking language and/or literature courses; see listings under "Literature" for descriptions of the literature courses, some of which may be taken concurrently with FRROM 206, 209, or 219.

FRROM 121-122(1210-1220) Elementary French

121, fall; 122, spring. 4 credits each semester. Prerequisites: for 121, no experience in French or LPF lower than 37 or SAT II lower than 410; for 122, LPF 37-44 or SAT II 410-480. FRROM 121. Fall: J. Luks (course coordinator) and staff; spring: J. Luks (course coordinator), S. Tun, and staff.

Provides a thorough grounding in the language and insights into French language and francophone cultures so that students

can function in basic situations in a French-speaking culture. Small classes provide intensive, context-specific practice in speaking, reading, writing, and listening comprehension.

FRROM 123(1230) Continuing French

Fall or spring. 4 credits. Prerequisite: FRROM 122 or LPF 45-55 or SAT II 490-590. Recommended courses after FRROM 123: FRROM 206 or 209. Fall: K. Proux-García (course coordinator) and staff; spring: K. Proux-García.

All-skills course designed to improve pronunciation, oral communication, and reading ability; to establish a groundwork for correct writing; and to provide a substantial grammar review. The approach encourages the student to see the language within the context of its culture.

FRROM 206(2060) French Intermediate Reading and Writing

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: FRROM 123, LPF 56-64, or SAT II 600-680. Conducted in French. Recommended courses after FRROM 206: FRROM 219 or FRLIT 221. Students who have taken FRROM 209 are not eligible to take FRROM 206 for credit. S. Tun.

Designed for students who want to focus on their reading and writing skills. Emphasizes grammar review and expansion, vocabulary development, and appreciation of different styles of language. Diverse text types are used, including a contemporary novel and student-selected material.

FRROM 209(2090) French Intermediate Composition and Conversation I

Fall, spring, or summer. 4 credits. *Satisfies Option 1.* Prerequisite: FRROM 123, LPF 56-64, or SAT II 600-680. Recommended courses after FRROM 209: FRROM 219 or FRLIT 221. Students who have taken FRROM 206 are not eligible to take FRROM 209 for credit. Fall: C. Sparfel (course coordinator), C. Dye, C. Waldron, and staff; spring: C. Sparfel (course coordinator), C. Dye, and staff; summer: C. Waldron.

Designed to strengthen grammar skills; improve reading, speaking, and writing ability; and help students become independent learners.

FRROM 210(2100) Pronunciation of Standard French

Spring. 3 credits. Prerequisites: FRROM 206 or 209 or higher, CASE Q+, or permission of instructor. This course cannot be used to fulfill the language requirement. T. Alkire.

Intermediate-level course focusing on accent reduction. Students learn how to transcribe French sounds while simultaneously engaging in systematic listening and pronunciation exercises. The exercises target vowels, consonants, and basic intonational patterns. Expressive intonation may be addressed near the end of the semester if time permits. Class work includes memorization of short dialogues and scenes from films. Students achieve better pronunciation, greater fluency, and increased self-assurance in spoken French by the end of the course.

FRROM 219(2190) French Intermediate Composition and Conversation II

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: FRROM 206 or 209, or permission of instructor, or Q+ on Cornell

Advanced Standing Examination (CASE). Conducted in French. Recommended courses after FRROM 219: FRLIT 221. FRROM 301 or 305. FRROM 219 may be taken concurrently with FRLIT 221. Fall: S. LoBello and staff; spring: S. LoBello (course coordinator), K. Proux-García, and staff.

Emphasizes improving grammatical accuracy and enriching vocabulary in oral and written expression of French. Varied types of reading including newspaper articles. Short videos, films, and presentations by students, provide the basis for writing assignments and class discussions. Themes and emphases may vary from section to section.

FRROM 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

FRROM 301(3010) Advanced French (I)

Fall or spring. 4 credits. *Satisfies Option 1.* Requirement for French majors.

Prerequisite: FRROM 219 or Q++ on Cornell Advanced Standing Examination (CASE). Recommended courses after FRROM 301: FRROM 312. FRLIT 221 may be taken concurrently with 301. S. LoBello.

Class discussions based on reading contemporary texts: half short stories, half articles on current events taken from French magazines or newspapers. All texts are chosen for thematic or cultural interest and linguistic quality. Special attention is given to accuracy in French through grammar review and weekly papers (essays or translations). Each student gives one or more oral presentations in class.

FRROM 305(3050) French through Film

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: FRROM 219 or Q++ on Cornell Advanced Standing Examination (CASE) or permission of instructor. Recommended courses after FRROM 305: FRROM 301, 312 or FRLIT 221. FRROM 305 may be taken concurrently with FRLIT 221. C. Waldron.

Analysis of French contemporary films and related readings, used as a means of studying the language. Particular emphasis is on the culture and historical context as it relates to French contemporary society. Additionally, guest speakers provide enrichment on selected topics.

FRROM 312(3120) Advanced French (II)

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: FRROM 301 or 305, or Q++ on Cornell Advanced Standing Examination (CASE). T. Alkire.

Course on stylistics and translation aiming to help students develop a richer, more nuanced and idiomatic command of both the spoken and written language. Systematic study of grammar is discontinued as more attention is devoted to topics such as descriptive and prescriptive stylistics, authorial style, varieties of spoken and written French and their literary representations, rhetorical figures, poetics, as well as translation theory and textual analysis. Writing exercises include pastiche, précis, explication de texte, exercice de style, and thème. Additional exercises target vocabulary development. Seminar-style participation in class discussions is expected, as are two oral presentations.

FRROM 313(3130) French in the NewsSpring. 4 credits. *Satisfies Option 1.*

Prerequisite: FRROM 301 or 305, or placement by Cornell Advanced Standing Examination (CASE). C. Waldron.

Studying French televised news broadcasts and other media places students at the heart of today's France. Flexible approach allows students to perfect their language skills.

FRROM 630(6300) French for Reading—Graduate Students

Spring only. 3 credits. Prerequisite: graduate standing. T. Alkire and staff.

Designed for those with little or no background in French. Aims primarily to develop skill in reading French. Covers grammar basics, extensive vocabulary, and strategies for reading in a foreign language. Some flexibility in selecting texts according to fields of interest is offered.

Literature**FRLIT 221(2210) Introduction to Textual Analysis # (LA)**Fall or spring. 3 credits. *Satisfies Option 1.*

Prerequisite: FRROM 206 or 209 or CASE Q+. Conducted in French. Fall: L. Ferri, T. McNulty, and staff; spring: A. Berger, C. Howie, and staff.

Designed to introduce students to methods of textual analysis, through the reading and discussion of works in various genres (narrative prose, drama, poetry) from the French and Francophone world. Emphasizes the development of analytical skills, in particular close readings of works by a variety of authors from different periods. Offerings change from semester to semester; for detailed descriptions of individual sections, consult the course roster or department web site.

FRLIT 224(2240) The French Experience (also HIST 270(2700)) (CA)

Fall. 3 credits. Readings available both in French and in English translation. Conducted in English. P. Lewis and S. Kaplan.

Examination of French society, culture, and institutions through key moments in French history in an attempt to understand what made French culture so distinctive. Looking attentively at texts, images and contexts, students attempt to unravel some of the defining enigmas of the French experience. Two lectures a week in English. Readings available in French and in English translation. Discussion sections available in French when possible.

Note: Prerequisite for all 300-level courses in French literature: FRLIT 221 or equivalent.**FRLIT 313(3130) French through Creative Writing (LA)**Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FRROM 301 or 305, or CASE placement. Conducted in French. A. Berger.

The aim of this course is threefold: to further students' understanding of the peculiarities of the French language, to further their understanding of literary writing (hence their reading ability) and to allow them to put these skills to the test by writing creatively themselves. We will read short pieces of literature, looking at the grammar, the rhetoric, the figures and the rhythm; at any thing that produces a literary effect and a richness of meaning. Then students will write short pieces themselves, based on their linguistic discoveries and understanding of the literary

process. Both the texts read and the texts produced weekly by the students will be subjected to commentary and careful scrutiny.

FRLIT 320(3200) Introduction to Twenty-First Century France (LA)Spring. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FROM 301, or CASE placement. Conducted in French. P. Lewis.

The broad focus of this course will be the art, literature, culture, and society of contemporary France. These interlocking dimensions of what the French take to be their national identity will be examined through a wide variety of representations: descriptions published in newspapers, magazines, and scholarly journals of the social, political, and religious controversies that have been prominent since the spring 2003 elections; a sampling of narratives, theatre, poetry, and opera produced since 2000; documentary films and standard movies produced for mass consumption; publicity for museums, exhibitions, monuments, and urban organizations; essays by politicians, journalists, and scholars about so-called "decline of France"; and conflicting accounts of France's place in the European Union and its tense relations with the United States.

FRLIT 321(3210) Readings in Modern French Literature and Culture (LA)Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221 or 224, and FRROM 301 or 305 or CASE placement. Conducted in French. L. Dubreuil.

Designed to teach ways of reading and understanding works created from the Romantic period to the present day, in their cultural context. A range of texts from various genres is presented, and students refine their analytical skills and their understanding of various methodologies of reading. Texts by authors such as Balzac, Baudelaire, Cixous, Colette, Duras, Genet, Mallarmé, Michaux, Proust, Rimbaud, Sarraute, Sartre.

FRLIT 322(3220) Readings in Early Modern Literature and Culture # (LA)Spring. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221 or 224, and FRROM 301 or 305 or CASE placement. Conducted in French. P. Lewis.

Designed to familiarize students with works from the Renaissance, the Classical period, and the Enlightenment, as well as the cultural and historical context in which these texts were created, reflected a dynamic period of significant change for France. Texts by such authors as Ronsard, du Bellay, Montaigne, Molière, Marguerite de Navarre, Corneille, Diderot, de Lafayette, Racine, Perrault, Rousseau. Students may read texts in the original languages or in translation.

FRLIT 324(3240) Imagining America (also AM ST 326, COM L 341, GOVT 303)

Fall. 4 credits. Conducted in English. D. Rubenstein.

For description, see AM ST 303.

FRLIT 339(3390) The Haitian Experience (CA)Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FRROM 301 or 305, or CASE placement. Conducted in French. L. Dubreuil.

This course will present some of the major features of Haitian society, culture, religion, politics, and literature, from the end of the

18th century to the present. Topics will include: Toussaint Louverture and the Black Revolution of the 1790s, voodoo, theories of race, and Creole as a language. Works studied will include books from and about Haiti, and perhaps some films as well. An important part of the course will be devoted to the rich (but less well-known) body of 19th century Haitian literature (such as Delorme, Durand, Firmin).

FRLIT 353(3530) Monsters A-X (Aristotle-X-files) (also FGSS/COM L 353(3530)) # (CA)

Fall. 4 credits. Conducted in English.

K. Long.

This course will explore the classical, medieval, and early modern sources for our notions of monsters, including strange beasts, wild men, demons, witches, and cyborgs. What do these figures tell us about our own attitudes towards racial and gender differences, towards other species and towards nature more generally? Finally, what do these figures tell us about our idea of what constitutes life? Texts to be considered will include Aristotle's *On the Generation of Animals*, Pliny's *Natural History*, Chrétien de Troyes' *Yvain*, Ambroise Paré's *On Monsters and Marvels*, *Beowulf*, Bram Stoker's *Dracula*, and various episodes of the *X-Files* (Detour, Bad Blood, *Il Mundo Gira*, etc.), as well as critical material from Donna Haraway (*Simians, Cyborgs, and Women and Primate Visions*), Judith Butler (*Gender Trouble*), and Julia Kristeva (*Pouvoirs de l'horreur*).**FRLIT 354(3540) Sad Songs: Medieval Melancholia (LA)**Spring. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FRROM 301, or CASE placement. Conducted in French. C. Howie.

There is something about medieval lyric that always seems a little past its prime. Love songs are necessarily sad songs, whether the love in question is for a distant past (usually full of better singers) or a distant present (usually full of inaccessible ladies). This course provides an introduction to melancholia: to what it means not to let go, and how certain poetic forms lend themselves to this tenacity. We'll read extensively in the Old French *trouvères*, their Occitan counterparts (who, as the lyric goes, always acted on their part), and the variously besieged and be-sotted poets-for-hire of medieval France, particularly Rutebeuf and François Villon. At the same time, we'll read about melancholia, how it holds on and what it holds on to, as articulated by thinkers such as Agamben, Butler, and Freud. Conducted in French; no previous knowledge of Old French is necessary.**FRLIT 355(3550) He Said, She Said: The Battle of the Sexes in Medieval and Renaissance Writing (also ITALL 355(3550), FGSS 356(3560)) # (LA)**

Spring. 4 credits. Conducted in English.

K. Long and M. Migiel.

The Middle Ages and the Renaissance have been described by some modern scholars as the crucible of modern subjectivity, the period in which we see the emergence of the individual and the elaboration of new and dissenting perspectives on the relation between the self and the divine, as well as between the self and the social order. Our seminar will focus upon these emerging perspectives by exploring how human experience has been articulated differently by men and women. Literary works of the period

reveal a spirited debate about gender roles and notions of romantic love and sexuality. Gender, language, and power are enmeshed in these writings. Men and women wield words both to reinforce the status quo and to transform social reality, posing questions that continue to be asked today. Are men and women fundamentally different? Do they experience the same event in different ways? Do men acknowledge and respond to women's authority? How do women present themselves when they respond to male authority and assume authority themselves? We will look for answers to these questions in such works as the *Letters of Heloise and Abelard*, the *Lais* of Marie de France, Boccaccio's *Decameron*, Marguerite de Navarre's *Heptameron*, and the poetry of Veronica Franco.

FRLIT 356(3560) Renaissance France # (CA)

Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FRROM 301, or CASE placement. Conducted in French.

K. Long.

This course traces the importance of a number of movements/crises/events for the evolution of France as a nation and a culture, as well as the impact of these movements on the origin of modern thought. We consider the ongoing debate over the status of women, known as the *querelle des femmes*; the discovery of the "New World" and its subsequent colonization; the Reformation, which led eventually to a separation of religious and national interests; and the rise of modernization and scientific disciplines. Three areas of inquiry are studied by means of various texts: the works of Marguerite de Navarre, Louise Labé, François Rabelais, Joachim du Bellay, Pierre de Ronsard, Ambroise Paré, and Michel de Montaigne, among others.

FRLIT 381(3810) 19th-Century French Women Writers (also FGSS 381(3810)) # (LA)

Fall. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221, FRROM 301 or 305, or CASE placement. Conducted in French. A. Berger.

While situating the works read within their specific historical and cultural context, this course will attempt to address a number of questions: can the literary works produced by women at that time be said to exhibit gender-related features? Given the operational hierarchy of literary genres in the 19th century, what accounts for women writers' preference for a given literary genre or exercise? How do women exploit or subvert literary canons? Finally, what portraits of gender difference and relations, what views of history on the one hand and sexuality on the other do these texts sketch? Writers read may include Mme de Staël, George Sand, Marceline Desbordes-Valmore, Flora Tristan, and Rachilde.

FRLIT 419-420(4190-4200) Special Topics in French Literature

419, fall; 420, spring. 2-4 credits each semester. Prerequisite: permission of instructor. Staff.

Guided independent study of special topics.

FRLIT 429-430(4290-4300) Honors Work in French

429, fall; 430, spring (yearlong). 8 credits. R grade given at end of fall semester and final letter grade at end of spring semester. Open to juniors and seniors. Consult

director of honors program for more information. Staff.

FRLIT 444(4440) Thinking the Event: Alain Badiou's Philosophy (also FRLIT 644[6440], COM L 626[6260]) (LA)

Spring. 4 credits. Conducted in English. B. Bosteels.

Based on the philosophy of Alain Badiou, especially in *Being and Event*, this course will study how we can think the radical change produced by an event, whether in politics, in art, in science, or in love. In a broad contextualization that will also serve as a generational portrait, we will discuss the relations of Badiou's thinking to psychoanalysis, mathematical set theory, poststructuralism, literary modernism, and Marxism. Readings will be limited to works translated into English, but a good reading knowledge of French and Spanish is recommended.

FRLIT 449(4490) Mystics and Mystique (also FRLIT 649[6490], FGSS 449/649[4490/6490])

Fall. 4 credits. Conducted in English.

C. Howie.

Mystics have a certain mystique. This is more redundant (and more true) than it might at first seem: mysticism is mystique, at least for a certain Francophone vocabulary of the visionary, and the difference that might take place between being and having is at the very heart of the mystical, or what at any rate has come down to us under that name. It is by now a commonplace that some of the most compelling vernacular writing of the high Middle Ages comes from the mouths (and, less frequently, the pens) of medieval visionaries. These women (and, less frequently, men) have challenged and contributed extensively to our understandings of language and gender, God and history, sex and sanctity. Furthermore, their hot and heavy (or occasionally austere and abstract) engagements with what surpasses human telling has inspired an entire generation (or two) of French thinkers (e.g. Bataille, Lacan) as well as entire theological traditions. In this seminar, we'll engage closely with an array of authors primarily from the medieval Mediterranean, including but not limited to Bonaventure, Marguerite Porete, Margaret of Oingt, Angela of Foligno, Iacopone of Todi, Catherine of Siena, John of the Cross, and Teresa of Avila. We'll also look at modern articulations of this tradition, from pious Victoriana to Bataille's *Érotisme* to Lacan's *Encore*, and theological reappraisals by Denys Turner, Mark McIntosh, and others. Readings and discussion in English.

FRLIT 471(4710) The End of Narrative (also FRLIT 671[6710]) (LA)

Fall. 4 credits. T. McNulty.

The irreducibility of literature to narrative is one of the dominant preoccupations of 20th century French literature and criticism, informing projects as diverse as André Gide's aspiration to strip narrative of its signifying currency in *Les faux monnayeurs*, Marguerite Duras' claim in *Détruire dit-elle* that she can no longer tolerate novels "because of the sentences," Emmanuel Lévinas' critique of narrative "themmatization" as a privileging of the "said" (*le dit*) over "saying" (*le dire*), and Roland Barthes' quest for what he calls "writing degree zero." We will divide our attention between literary and critical works,

with special attention to those authors (Proust, Gide, Bataille, Blanchot, Klossowski, Sarraute, Duras) who approached the problem of the "end of narrative" through literary works as well as critical essays and interviews. Reading knowledge of French required.

FRLIT 475(4750) Exoticism and Eroticism: Figures of the Others in 18th Century Literature (also FRLIT 673[6730], FGSS 474[4740]) # (LA)

Fall. 4 credits. *Satisfies Option 1.*

Prerequisite: FRLIT 221 and FRROM 301 or 305, or permission of instructor. Conducted in French. A. Berger.

Through travel, commerce and colonial expeditions, Europe "discovered" itself as it "encountered" others (good savages and cannibals, oriental women or despots, Persians, Indians, Zoroastrians, Tahitians, Americans, giants, etc.) Imagined or theorized, the exotic experience helped shape modern discourses on diversity and identity, on universalism and particularism, on the human species and community borders. In that context, a new literary genre emerged: the oriental (or orientalist) novel. Since literature itself traditionally occupies the place of the "other of reason", since it is the great language seducer in Western thought, it sided with the orient, or rather with the oriental woman. For exoticism is always eroticized (thus feminized) as the erotic is orientalized. How does the oriental novel stage or articulate the connections between fiction, femininity, sexuality and otherness? How does the oriental novel fit in or stray away from the Enlightenment intellectual and political program? (Readings include Montesquieu, Prévost, Crébillon, Diderot, and Rousseau).

FRLIT 478(4780) Cinema and Writing in France and the Francophone World (LA)

Spring. 4 credits. *Satisfies Option 1.*

Prerequisites: FRLIT 221 and FRROM 301 or 305, or permission of instructor.

Conducted in French. L. Dubreuil.

This course will explore the main kinds of relations between literature and cinema, and will include a theoretical reflection on language and image. Various cases of cooperation or interlacing will be studied. We will examine works belonging to the French and Francophone traditions, such as: *Une partie de campagne* (Maupassant's short story and Jean Renoir's movie), *Mouchette* (Bernanos' book adapted by Robert Bresson), *Xala* (Sembene Ousmane's adaptation of his own novel), *India Song* (Marguerite Duras' movie and book), *Le Polygraphe* (Robert Lepage's movie and play), and *Pour Louis de Funès* (Valère Novarina's text on acting).

FRLIT 488(4880) Baudelaire and the Lyric (also FRLIT 688[6880], COM L 480/680[4800/6800])

Spring. 4 credits. J. Culler.

For description see COM L 480.

FRLIT 607(6070) Proseminar (also ITAL/SPANL 607[6070])

Fall. 2 credits. D. Castillo and staff.

The proseminar is the place for sustained exchanges between graduate students, faculty, and visiting lecturers. Activities include reading and discussion of seminal texts, chapters from dissertations and works in progress, and articles and essays from visiting lecturers.

FRLIT 639-640(6390-6400) Special Topics in French Literature
639, fall; 640, spring. 2-4 credits each semester. Staff.

Guided independent study for graduate students.

FRLIT 644(6440) Thinking the Event: Alain Badiou's Philosophy (also FRLIT 444(4440), COM L 626(6260))
Spring. 4 credits. Conducted in English. B. Bosteels.

For description, see FRLIT 444.

FRLIT 649(6490) Mystics and Mystique (also FRLIT 449(4490), FGSS 449/649(4490/6490))
Fall. 4 credits. C. Howie.

For description, see FRLIT 449.

FRLIT 662(6620) The Extraordinary: Literature and Concept
Spring. 4 credits. Conducted in French. L. Dubreuil.

Literary thought is extraordinary since it passes the boundaries of philosophical concepts. Far from being attached to naïve affects or to sacred purity, literature articulates an impossible response to philosophy. Thus, an oeuvre constitutes an effective event, whose experience is sometimes related to the very representation of the extraordinary (plurality of worlds, ecstasy, possession, haunting, etc.). While the seminar will give a general introduction to the main positions on "literature and philosophy" in contemporary France (Deleuze, Derrida, Rancière, Badiou), the bulk of our time will be devoted to 19th century French writers such as Nerval, Baudelaire or Maupassant, as well as to some implied philosophers (e.g. Plato, Descartes, Schopenhauer, Hegel, etc.).

FRLIT 671(6710) The End of Narrative (also FRLIT 471(4710))
Fall. 4 credits. T. McNulty.

For description, see FRLIT 471.

FRLIT 673(6730) Exoticism and Eroticism: Figures of the Other in 18th Century Literature (also FRLIT 475(4750))
Fall. 4 credits. Conducted in French. A. Berger.

For description, see FRLIT 475.

FRLIT 688(6880) Baudelaire and the Lyric (also FRLIT 488(4880), COM L 480/680(4800/6800))
Spring. 4 credits. J. Culler.

For description see COM L 480.

Italian

T. Alkire, M. Baraldi, K. Bättig von Wittelsbach, T. Campbell (director of undergraduate studies), F. Cervesi, C. Dye, M. Migiel, P. Swenson. Emerita: A. Grossvogel.

The Major

The Italian section offers a major in Italian with tracks in Italian literature and culture and Italian studies. The first track is designed for students who wish to study Italian language, literature, and culture through the works of writers, artists, and cultural figures who have developed rich and varied aesthetic traditions. The track in Italian studies includes a broader progression of courses that entails work in related disciplines. Both are designed to provide students with proficiency in reading, speaking, and writing in Italian, to familiarize them with Italian culture, and to assist them

in analyzing Italian texts in related fields. For further information, students are asked to consult the director of undergraduate studies.

Track 1: Italian Literature and Culture

Track 1 is designed for students who: (1) wish to study Italian language, literature, and culture through the works of writers, artists, and cultural figures; and (2) may wish to pursue a Ph.D. in Italian.

Admission: The prerequisite for official admission to Track 1 of the Italian major is successful completion of any ITALL course at the 200 level or higher conducted in Italian.

Students who wish to follow Track 1 in Italian are advised to consult with the director of undergraduate studies (DUS), Professor Timothy Campbell (tcc9@cornell.edu), whose office is 323C Morrill Hall. The DUS will take into account the student's interest, preparation, and career goals and assign the student to an advisor. Students majoring in Italian are expected to become conversant with a fair portion of the masterworks of Italian literature, to acquaint themselves with the outlines of Italian literary and cultural history, and to develop some skill in textual and cultural analysis. In conjunction with the major advisor, the student will craft an individualized plan of studies that will meet the minimum requirements for Track 1 as listed here:

- At least 10 ITALL courses at the 200 level and higher. (The prerequisite may be counted toward this requirement. The 1-credit Italian practicum and the 1- or 2-credit independent study options do not count as full courses). One of these courses must be at the 400 level and one must focus on Italian texts before the 18th century. With the permission of the advisor, the student may substitute for two of these courses other courses that are deemed relevant to the student's study of Italian, e.g., a course in another national literature, a course in critical theory, or a course in European history.
- At least 20 credits in courses conducted entirely in Italian. The Italian practica may be used to fulfill 3 of these credits. Twelve of these credits must be in courses in Italian at the 300 level or above.
- Competency in the Italian language (as demonstrated by examination or by course work approved by the DUS).

ITALA 402, History of the Italian Language, and ITALA 403, Linguistic Structure of Italian, may be counted toward the 10 courses required for the major. Note: An introductory linguistics course is a prerequisite for ITALA 402 and 403.

Track 2: Italian Studies

Track 2 in Italian Studies is designed primarily for students who wish to pursue individual interests that do not fall within Track 1 of the major. Students select courses from the Italian section as well as courses from other departments that have a substantial Italian component, such as History of Art, Architecture, Government, Music, and Comparative Literature. For the list of approved Italian studies courses, please see the director of undergraduate studies.

Admission: By the end of their sophomore year, prospective majors in Track 2 should

have taken ITALA 219, Intermediate Conversation and Composition, or demonstrated the equivalent level of fluency.

To complete the program, students must:

1. Demonstrate competence in the Italian language by completing ITALA 313, Advanced Conversation and Composition, or its equivalent;
2. Complete the core series of Italian studies courses: ITALL 290, Perspectives in Italian Culture (fall), ITALL 295, Italian Cinema (fall), and ITALL 297, Introduction to Italian Literature (spring);
3. Complete at least five courses (20 credits) from the approved list of Italian studies courses at the 300 level or above from no more than three departments. Students planning on studying abroad for a year or a semester in Italy should plan their course work to emphasize their individual interests. Note: Students must maintain a B- in each of the five Italian studies courses; and
4. Select a committee of one or more faculty advisors to help formulate a coherent program of study. One of the advisors must come from the Italian studies section.

Students are encouraged to enrich the program by combining this option with other majors in related fields such as history of art, music, comparative literature, or architecture.

Concentration in Italian Studies

In order to complete an undergraduate concentration in Italian Studies, students must take at least five courses (a minimum of 15 credits) by selecting courses from the Italian Studies Concentration Course List, one of which must be ITALL 290, Perspectives in Italian Culture. These courses must be allocated among at least three Cornell departments and must include one introductory course and one course at the advanced level. Courses not on the list may be approved by petition only. Language competence must be demonstrated by successfully completing ITALA 219. Please note that courses taken as part of a study abroad program approved by the Study Abroad Dean may count towards meeting the above requirements.

Students wishing to enroll in the concentration must register their intent by contacting Professor Timothy Campbell, director of undergraduate studies, 323C Morrill Hall, 607-255-8432, who will assign a faculty advisor to students.

Study Abroad in Italy: Italian studies faculty members strongly encourage students to consider studying abroad in Italy. Students will have the opportunity to immerse themselves in Italian and gain a singular perspective on the Italian cultural context.

Students are urged to consider the Bologna Cooperative Studies Program (BCSP), of which Cornell is an associate member. BCSP offers qualified undergraduate students an opportunity to study for a full academic year or a second semester at the University of Bologna for credit. During each semester of the academic year, which begins in October and extends through June, BCSP students enroll in one or two regular University of Bologna courses with Italian students.

Students may also take special courses in Italian literature, language, art history, film studies, and contemporary politics.

Language

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance at the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

ITALA 121-122(1210-1220) Elementary Italian

121, fall; 122, spring. 4 credits each semester. Prerequisite: for ITALA 122, 121 or LPI 37-44 or SAT II 370-450. Intended for beginners or students placed by examination. At the end of ITALA 122, students who score lower than 56 on LPI may take ITALA 123, those with 56 or higher on LPI attain qualification and may enter 200-level sequence; otherwise ITALA 123 required for qualification. Evening prelims. Fall: F. Cervesi (course coordinator), T. Alkire, M. Baraldi, K. Bättig von Wittelsbach, and staff; spring: F. Cervesi (course coordinator), M. Baraldi, K. Bättig von Wittelsbach, C. Dye, and staff.

Provides a thorough grounding in all the language skills: listening, speaking, reading, and writing, with practice in small groups. Lectures cover grammar and cultural information.

ITALA 123(1230) Continuing Italian

Fall or spring. 4 credits. Prerequisite: study of Italian; LPI 45-55 or SAT II 460-580. K. Bättig von Wittelsbach.

All-skills course designed to improve speaking and reading ability, establish a groundwork for correct writing, and provide a substantial grammar review.

ITALA 209(2090) Italian Intermediate Composition and Conversation I

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: ITALA 123 or LPI 56-64, or SAT II 590-680, or CASE Q. Fall: P. Swenson (course coordinator), C. Dye, and staff; spring: P. Swenson and staff.

Provides a guided conversation, composition, reading, pronunciation, and grammar review, emphasizing the development of accurate and idiomatic expression in the language.

ITALA 219(2190) Italian Intermediate Composition and Conversation II

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: ITALA 209 or equivalent. P. Swenson and staff.

Guided conversation, composition, reading, pronunciation, and grammar review emphasizing the development of accurate and idiomatic expression in the language.

Note: Students placed in 200-level courses also have the option of taking courses in introductory literature, cultural studies, and cinema; see separate listings under ITALL for descriptions of these courses.

ITALA 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

ITALA 313(3130) Advanced Italian: Language in Italian Culture (LA)

Fall. 3 credits. *Satisfies Option 1.*

Prerequisite: ITALA 219 or equivalent or permission of instructor. Conducted in Italian. P. Swenson.

Focuses on developing oral and written language skills through the study of cultural and social issues of contemporary Italy. Students improve their fluency in the language through oral exercises, compositions, as well as group and individual presentations. The course also entails a grammar review of selected points and analysis of present-day Italian.

Literature

ITALL 227(2270) Family Life in Renaissance Italy (also HIST 227(2271)) # (HA)

Spring. 4 credits. Conducted in English. J. Najemy.

For description, see HIST 227.

ITALL 255(2550) Sophomore Seminar: A Forkful of Spaghetti Westerns: The Italian Western and Its American Lineage (LA)

Spring. 3 credits. Limited to 15 students. Conducted in English. T. Campbell.

In this course we will attempt to construct a cinematic genealogy of the spaghetti western. Beginning with the classic American westerns, we'll examine the captivity, narratives, and sado-masochistic theater of the Hollywood Western associated with Native Americans, and discuss the figure of the gunman and the role of landscape as a space of both harmony and ruin. Turning to the films of Sergio Leone and a number of Italian directors who are most representative of the Italian Western, we will examine the cultural and social contexts surrounding the emergence of the Western in Italy (of all places), wonder about the Italian-ness of the genre, linking it to the pastoral, discuss the spaghetti's assumptions about race and family, and ask after its long-term impact on American cinema, in particular in the films of Sam Peckinpah. American westerns to be screened: *Stagecoach*, *My Darling Clementine*, *Fort Apache*, *The Bravados*, *The Searchers*, *Rio Bravo*, *The Man Who Shot Liberty Valence*, *The Wild Bunch*. Italian westerns to be screened: *A Fistful of Dollars*, *For a Few Dollars More*, *Once Upon a Time in the West*, *A Fistful of Dynamite*, *A Bullet for the General*, *Django*, *My Name is Nobody*.

This is a special seminar sponsored by the John S. Knight Institute sophomore Seminars Program. Seminars offer discipline-intensive study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

ITALL 290(2900) Perspectives in Italian Culture (CA)

Fall. 3 credits. "Core course" in Italian studies major; offered every year. Conducted in English with a discussion section in Italian. T. Campbell.

Aims to provide students with the tools necessary to understand the most important social, political and artistic developments occurring in contemporary Italian culture.

These include the historical background of fragmentation in post-Risorgimento Italy; the "Southern" question and "Cosa Nostra"; Italian cinema, with particular attention paid to neo-realism; and the politics of food. By providing students with different perspectives on Italian culture, students can better situate their own interests in terms of the complex of beliefs and response that together form their culture. Through background lectures, discussions of readings in anthropology, history, literature, sociology, cultural studies, and film screenings, students are introduced to a full range of resources employed in the production and consumption of Italian culture globally today. Primary readings include selections from Peter Robb, Leonardo Sciascia, and Tim Parks; films from Amelio, Benigni, Sergio Leone, Moretti, and Muccino. A group of secondary readings stimulates the discussion of the historical and cultural panorama of contemporary Italy.

ITALL 295(2950) Screenings in Italian Cinema (CA)

Fall. 3 credits. Prerequisites: ITALA 209 or permission of instructor. Conducted in Italian. T. Campbell and staff.

Aims to provide students with an introduction to Italian film from the 1940s to the present. Students will view the representative works of the most important Italian directors in order to create a perspective on one of the world's major national cinematic traditions. We will pay close attention to the socio-political context of the films, as well as consider the technical and theoretical issues that arise in our study of Italian cinema. Particular attention will be given to Italian neo-realism, Italian political cinema of the 1970s, and contemporary Italian cinema.

ITALL 297(2970) Introduction to Italian Literature (LA)

Spring. 3 credits. Core course in Italian studies major. *Satisfies Option 1.* Conducted in Italian. T. Campbell and staff.

Aims to introduce students to Italian literature of the 20th century. The first half of the semester is dedicated to the short-story genre, in particular to prose works by Pirandello, Buzzati, Sciascia and others. The second half covers the writings of Primo Levi, reading his classic *Se questo è un uomo*. Throughout, a special interest is placed on representations of Italian modernity. In addition, the course includes significant practice in grammar and composition. To this end, the students are required to write five papers of medium length over the course of the semester.

ITALL 300(3000) Italian Practicum

Fall or spring. 1 credit. Conducted in Italian. Staff.

Students enrolled in an Italian literature or culture course that is conducted in English (e.g., ITALL 290) may opt to take this practicum, provided that they have already attained proficiency in the language. Students in the practicum spend one class hour per week discussing selected issues or texts in Italian; they also complete an appropriate amount of written work in Italian.

ITALL 301(3010) Screening "Cosa Nostra": The Mafia and the Movies from Scarface to The Sopranos

4 credits. Limited to 30 students.

Conducted in English. T. Campbell.

From Al Capone to Tony Soprano, the Mafia has been subject of numerous films over

the course of 70 years, so many in fact that one might speak of a "Mafia obsession" in American popular culture. Drawing upon a large number of American and Italian films, this course examines the cultural history of the Mafia through film. We will explore issues related to the figure of the gangster, the gender and class assumptions that underpin it, and the portrayal—almost always stereotypical—of Italian-American immigrant experience that emerges from our viewing. The aim will be to enhance our understanding of the role the Mafia plays in American and Italian culture in the 20th and 21st centuries. Film screening will include "Little Caesar," "Scarface: Shame of the Nation," "The Godfather I and II," "Goodfellas," "The Funeral," "Donnie Brasco," and several episodes from "The Sopranos." We will also watch a number of Italian treatments of the Mafia, including: "Salvatore Giuliano," "Johnny Stecchino," "The 100 Steps," and "Angela." Critical readings from Bondanella, Dickie, Gardaphe, Kolker, and Warshaw.

ITALL 303(3030) Italian in Pre-Modern Times

Spring. 4 credits. Prerequisites: ITALA 209 or permission of instructor. Conducted in Italian. M. Migiel.

The major objective of this seminar will be to have students develop competence in reading pre-modern Italian texts. Manageable readings will be drawn from a variety of sources (literary, religious, philosophical, historical). Students will have an opportunity to work with well-known Italian works that have been widely disseminated in multiple English translations and with lesser known Italian works that have never been translated into English.

ITALL 340(3400) History of the Grotesque (LA)

Fall. 3 credits. Prerequisites: ITALA 209 or permission of instructor. Conducted in Italian. C. Howie.

Italian literary history, seen from a certain angle, is a series of moments of rhetorical exaggeration, bodily deformity, sexual overkill, religious satire, and extreme violence; hallmarks of an aesthetic category that came, at some point in the modern period, to be called the grotesque. We'll examine the particular shapes to which this category can be applied across time, and which may in turn alter the very shape of the category. After all, the grotesque is nothing if not a question of shapes: of anticipated literary, embodied forms and their eventual disappointment or monstrous transformation; of how aesthetic devices not only represent but produce the 'normal' body as an effect of its many variations. We'll look at the fecal fantasies of Lacopone da Todi and Dante; Boccaccio's *femmes fatales*; the beautifully mangled bodies of Renaissance epic (Tasso) and pornography (Aretino); modern decadentism (Gozzano, Campana); and the return of blasphemy in Pasolini and Landolfi. We'll also see how Stephen Sondheim reimagines Tarchetti's *Fosca* (via Scola's *Passione d'amore*) and how critics as various as Bakhtin, Harpham, and Linda Hart have articulated the grotesque's offensive allure.

ITALL 350(3500) Italian Renaissance (also HIST 350[3500]) # (HA)

Spring. 3 credits. J. Najemy.
For description, see HIST 350.

ITALL 351(3510) Machiavelli (also HIST 351[3510]) # (HA)

Fall. 3 credits. J. Najemy.
For description, see HIST 351.

ITALL 355(3550) He Said, She Said: The Battle of the Sexes in Medieval and Renaissance Writing (also FRLIT 355[3550], FGSS 356[3560]) # (LA)

Spring. 4 credits. Conducted in English.
M. Migiel and K. Long.
For description, see FRLIT 355.

ITALL 385(3850) Modern Italian Travel Writing

Fall. 4 credits. Prerequisite: permission of instructor. Conducted in Italian.
T. Campbell.

In this introduction to modern Italian travel narratives, students will read a range of texts dating from the late 19th to mid-20th centuries that urge travel as their theme (with a particular emphasis placed on Northeast Africa and Latin America). The course begins with missionary accounts from Eritrea, continues with the correspondence of Italian emigrants to Argentina and Brazil, and then turns to minor classics of Italian travel literature from Cecchi, Moravia, Pasolini, and Calvino. We will ask after the ways in which travel writing produces a space of displacement, consider the relation between technology, travel and aesthetics, and discuss the forms by which the distinction between Italian and non-Italian is observed.

ITALL 389(3890) Modern Italian Novel (LA)

Spring. 4 credits. *Satisfies Option 1.*
Prerequisite: permission of instructor.
Students who have taken ITALL 389 previously may retake course for credit, provided that readings are different.
Conducted in Italian. P. Swenson.

Through the novels of N. Ginzburg, G. Bassani, P. Levi, R. Loy, this course examines the Italian social and political situation during the Fascist period, the Second World War, and the post-war years. Time, memory, family, the responsibility of the individual, the fate of the Jews, are common themes that pervade the narrative of the authors in both comparable and dissonant ways. Conducted in Italian.

ITALL 400(4000) Morante (LA)

Fall. 4 credits. M. Migiel.
This seminar will be dedicated to a reading of Elsa Morante's 1974 novel, *La Storia*. Considered by many readers to be the most outstanding novel of the Italian 20th century, *La Storia* treats a grand event of History (World War II, the battle between the superpowers, the Shoah), from the perspective of a humble school teacher in Rome, Iduzza, and her family (most notably her illegitimate son, Usepe, and his canine companions). The novel offers students insights into how language, story, and literature can help us confront difference, conflict, loss, destruction, and grief.

ITALL 419-420(4190-4200) Special Topics in Italian Literature

419, fall; 420, spring. 2-4 credits each semester. Prerequisite: permission of instructor. Fall: T. Campbell; spring: T. Campbell and M. Migiel.
Guided independent study of specific topics.

ITALL 429-430(4290-4300) Honors in Italian Literature

429, fall; 430, spring (yearlong). 8 credits.
R, fall; letter grade, spring. Prerequisite: senior standing; permission of instructor.
T. Campbell and staff.

ITALL (4500) Renaissance Poetry (also ITALL 650[6500], COM L 450[4500], ENGL 422[4220]) # (LA)

Spring. 4 credits. W. Kennedy.
For description, see COM L 450.

ITALL 468(4680) Love and Sex in the Italian Renaissance (also HIST 468[4680]) # (HA)

Fall. 4 credits. J. Najemy.
For description, see HIST 468.

ITALL 607(6070) Proseminar (also FRLIT/SPANL 607[6070])

Fall. 2 credits. D. Castillo and staff.
For description, see FRLIT 607.

ITALL 639-640(6390-6400) Special Topics in Italian Literature

639, fall; 640, spring. 4 credits each semester. Fall: T. Campbell; spring: T. Campbell and M. Migiel.

ITALL 650(6500) Renaissance Poetry (also ITALL 450[4500], COM L 450[4500])

Spring. 4 credits. W. Kennedy.
For description, see COM L 450.

Portuguese

Faculty: L. Horne, J. Oliveira.

PORT 121-122(1210-1220) Elementary Brazilian Portuguese I-II

121, fall; 122, spring. 4 credits each semester. PORT 121 is the prerequisite for PORT 122. J. Oliveria.

This is a full-year introductory course, intended for students with no knowledge of Portuguese, and with limited or no knowledge of Spanish*. Stress is placed upon the development of the fundamental communication skills: listening, speaking, reading, and writing.

PORT 209-219(2090-2190) Intermediate Brazilian Portuguese for Spanish Speakers* I-II @

209, fall; 219, spring. 4 credits each semester. *Satisfies Option 1.* Prerequisite for 209: PORT 122 or permission of instructor; Prerequisite for 219: PORT 209 or permission of instructor. J. Oliveira.

Portuguese 209-219 is a full year course intended for students who have already taken the first level of Portuguese, or as an intensive introductory course for those who are native/near native speakers of Spanish*. An all-skills course with particular emphasis on Brazilian Portuguese spoken within the context of its culture, it presents a fast-paced review focused on improving grammatical accuracy, pronunciation and on enriching vocabulary.

*Although most of the materials are geared to speakers of Spanish, speakers of other Romance languages, such as French, Italian, or Catalan, etc., will also find this course effective as an introduction to Portuguese.

On the difference between PORT 209-219 and 221-222. PORT 209 is the first semester of the full-year 209-219 intermediate sequence. Although students may enroll in 209 and not continue with 219, students who have not previously taken 209 are not eligible to enroll in 219. Likewise, PORT 221-222 is a full-year intermediate sequence designed specifically

for distance learning, and following a different syllabus, using different materials, and as such is distinct from 209-219. The differences in materials and course design are such that students from one sequence are not eligible to enroll in the second half of the other sequence.

PORT 221-222(2210-2220) Intermediate Brazilian Portuguese via Distance Learning

221, fall; 222, spring. 4 credits each semester. *Satisfies Option 1.* Prerequisite for 221: PORT 122 or permission of instructor; Prerequisite for 222: PORT 221 or permission of instructor. Staff.

PORT 221-222 is a full year course intended for students who have already taken the first level of Portuguese, or as an introductory course for those who are native/near native speakers of Spanish or of another Romance Language.

On the Distance Learning format. PORT 221-222 is designed in a distance learning format for access by two other institutions. The course is conducted in a specially equipped classroom at the Language Resource Center at Cornell, with a Cornell instructor and Cornell students working together on location, communicating with students from two other campuses via monitors, with native speakers of Portuguese as facilitators at each other site. The fact that there are members of the class at two other sites renders communication at times less natural; however at the same time this communication is in fact more motivated, and allows for greater richness of exchange and development of aural/oral skills. There being more than one native speaker of the language (the instructor and the facilitators) provides another level of enrichment as well. Because of the size of the classroom this course is limited to a maximum of 10 Cornell students, and to a maximum of 15 students at all three sites combined.

On the difference between PORT 209-219 and 221-222. PORT 221-222 is a full year course intended for students who have the same background as those entering the 209-219. Although students may enroll in 221 and not continue with 222, students who have not previously taken 221 are not eligible to enroll in 222. Likewise, PORT 209-219 is a full-year intermediate sequence following a different syllabus, using different materials, and as such is distinct from 221-222. The differences in materials and course design are such that students from one sequence are not eligible to enroll in the second half of the other sequence.

PORT 280(2800) Perspectives on Brazil

Fall. 3 credits. Conducted in English. L. Horne.

This course provides an introduction and overview of Brazilian Culture. It will study different periods of Brazilian history through the analysis of films, literature, essays, visual arts, and music. Students will explore different definitions of Brazilian identity and "Brazilianess" focusing on key topics including the formation of the Colonial Brazil and the emergence of the nation of Brazil as a tropical paradise; slavery and abolition; the particularities century; and the contradictions of the modernization process throughout the 20th century. We will consider elements of Brazilian popular culture such as Carnival, Samba, and "telenovelas," and some of the most important cultural movements of the 20th century such as "Modernismo," "Cinema

Novo," and "Tropicalia." The primary objective of the course is to provide students with the relevant background to understand Brazilian cultural history.

PORT 311(3110) Portuguese Advanced Conversation

Fall. 4 credits. Prerequisite: PORT 219 or 222, or permission of instructor. J. Oliveira. The focus of the course is expanding conversational language through an advanced systematic study of grammar review emphasizing accuracy, and enriching vocabulary in oral practice of Brazilian Portuguese. Designed for students who want to improve their comprehension and communication skills. The exercises target vocabulary and grammar development.

PORT 312(3120) Portuguese Advanced Conversation and Composition

Spring. 4 credits. Prerequisite: PORT 311, or permission of instructor. J. Oliveira. Content-based language course focused on selected readings including newspaper articles, magazines and the Internet in addition to the textbook. A systematic study of grammar is discontinued, however, the readings in the textbook continue to provide a review of more advanced grammatical and idiomatic structures. By engaging in more sustained interactions in the language, the course aims to help the students to express more complex ideas in Portuguese.

PORT 319(3190) Readings in 19th and 20th Century Brazilian and Portuguese Literatures

Spring. 4 credits. Prerequisites: PORT 219 or permission of instructor. Conducted in Portuguese. L. Horne.

This course aims to provide an overview of Modern Brazilian and Portuguese Literatures. It will cover the major literary movements and the essential canonical writers of 19th and 20th century in Portuguese language. Following a chronological order, we will read texts from both Portugal and Brazil, establishing a comparative approach and underlining the similarities and the differences of each context. Some of the topics to be discussed are: the formation of a national literature; literature and slavery; foreign models and rewritings; diverse definitions of national spaces and landscapes; relationships between aesthetic innovations and political issues; and different literary definitions of frontiers, margins and exclusions. The course also intends to introduce students to the practice of literary analysis, and to provide an opportunity to improve language skills in Portuguese through extensive oral and written practice. Some of the authors to be read include Oswald de Andrade, J. M. Machado de Assis, Clarice Lispector, Fernando Pessoa, Eça de Queirós, Graciliano Ramos, João Guimarães Rosa, and José Saramago.

PORT 390(3900) Brazilian Cinema: 1960s to the Present

Spring. 4 credits. L. Horne. This course will explore the major trends in Brazilian cinema from the sixties to the present. We will begin by examining the different phases of the famous "Cinema Novo"; followed by the most important films of the seventies and eighties and ending with a unit centered around the "New Brazilian Cinema" (1990-present). We will address diverse issues including the following: How has Brazilian Cinema used allegory in order to represent national identity? How formal

innovations have been related to the creation of a political cinema? What is the relation of "art" and "commercial film" within the context of Brazilian culture? How has the notion of the popular changed over these decades? Can we talk about a change from a utopic vision of the future to a dystopic or disenchanted one? How are melodrama, historical satire and realist aesthetic understood in the contemporary moment? We will analyze the films within the context of Brazilian cultural history along with readings on popular culture, cultural studies and film theory.

PORT 419-420(4190-4200) Special Topics in Portuguese Literature

419, fall; 420, spring. 2-4 credits each semester. Prerequisite: permission of instructor. L. Horne. Guided independent study of special topics.

PORT 480(4800) The Return of the Real: Realisms in Latin American Literature (also SPANL 480[4800])

Fall. 4 credits. Prerequisites: SPANL 214 (formerly 316), SPANL 215 (formerly 318), and SPANL 217 (formerly 318) or permission of instructor. Conducted in Spanish. L. Horne.

In recent years, the realist ambition to represent contemporary life has returned with considerable force. This course proposes an in-depth study of realism in recent narrative from Latin America with a special emphasis on Brazil. We will explore the main conceptual problems of this aesthetic current and its particularities in the context of contemporary Latin American culture. The central question that runs through this course is whether it is possible to speak a new form of realism and if so, to try to specify where the novelty lies. The course will also address the following debates: Can we still talk about "realism" after Poststructuralism and the Avant-gardes? How does the "culture of the image" affect the concepts of "representation" and "verisimilitude"? If Realism has been traditionally identified as a political literature, can we still talk about a political force of realism in the present moment? How is the traditional interest of realism for the ugly and the banal transformed in contemporary writings? Readings include texts of Cesar Aira, Caio Fernando Abreu, Sergio Chejfec, Rodolfo Fogwill, Pedro Juan Gutierrez, Daniel Mella, Luiz Ruffato, and André Sant' Anna.

PORT 639-640(6390-6400) Special Topics in Portuguese Literature

Fall (639); spring (640). 2-4 credits each semester. L. Horne. Guided independent study of special topics.

Quechua

Faculty: L. Moratón-Peña.

QUECH 121-122(1210-1220) Elementary Quechua

121, fall; 122, spring. 4 credits each semester. Prerequisite: for 122, QUECH 121. L. Moratón-Peña. Beginning conversation course in Quechua.

QUECH 136(1360) Quechua Writing Lab

Spring. 1 credit. Corequisite: QUECH 122 or permission of instructor. Letter grades only. L. Moratón-Peña. Computer-assisted drill and writing instruction in elementary Quechua.

QUECH 209-219(2090-2190) Continuing Quechua @

209, fall; 219, spring. 3 credits each semester. *Satisfies Option 1.* Prerequisites: for 209, QUECH 122 or equivalent; for 219: QUECH 209 or equivalent. L. Morató-Peña. Intermediate conversation and reading course. Study of the Huarochiri manuscript.

QUECH 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. L. Morató-Peña. Taught on a specialized basis to address particular student needs.

Romance Studies**ROM S 507(5070) Methodology of Romance Language Learning and Teaching**

Spring. 3 credits. J. Luks and B. Teutli. Focuses on language teaching as facilitation of learning, thus on the learner's processing of language acquisition and the promotion of reflective teaching. Pedagogical approaches will be addressed from a learner-centered perspective involving effective language learning strategies and analysis.

ROM S 508(5080) TA Practicum

Fall. 1 credit. Required for all graduate TAs teaching language for the first time in the Department. Staff. This practicum is designed to better enable the TAs to meet the needs of their students in the understanding and acquisition of the linguistic forms, notions and functions covered in their course.

Spanish

S. Amigo-Silvestre, M. Arellano, I. Auffret, B. Bosteels, L. Carrillo, D. Castillo, E. Dozier (associate chair for language instruction), M. A. Garcés (director of undergraduate studies), J. Rodríguez García, J. Hernandez, Z. Iguina, C. Lawless, N. Maldonado-Méndez, L. Morató-Peña, J. E. Paz-Soldán, S. Pinet, M. K. Redmond, J. R. Resina, J. Routier-Pucci, E. Sánchez-Blake, A. Stratakis-Tiò, B. Teutli. Emeritus: C. Morón Arroyo.

The Major

The Spanish major is designed to give students proficiency in the oral and written language, to acquaint them with Hispanic culture, and to develop their skill in literary and linguistic analysis. Satisfactory completion of the major should enable students to meet language and literature requirements for teaching, to continue with graduate work in Spanish or other appropriate disciplines, and to satisfy standards for acceptance into the training programs of the government, social agencies, and business concerns. A Spanish major combined with another discipline may also allow a student to undertake preprofessional training for graduate study in law or medicine. Students interested in a Spanish major are encouraged to seek faculty advice as early as possible. For acceptance into the major, students should consult Professor María Antonia Garcés (mg43@cornell.edu), director of undergraduate studies, in 315 Morrill Hall, who will admit them to the major, and assign them an advisor from the Spanish faculty. Spanish majors will then work out a plan of study in consultation with their advisors. Spanish majors have great flexibility in devising their programs of study

and areas of concentration. Previous training and interests as well as vocational goals will be taken into account when the student's program of courses is determined.

SPANR 219 is a prerequisite to entering the major in Spanish.

All majors will normally include the following core courses in their programs:

1. SPANL 214, 215, and 217 (not necessarily in that order).
2. SPANR 310 and 311.
3. one of the two annually designated senior seminars.

The Spanish Literature Option

The Spanish literature option normally includes at least 15 credits of Spanish literature beyond the core courses. Literature majors are strongly urged to include in their programs courses in all the major periods of Hispanic literature.

Concentration in Spanish

The concentration promotes a broad understanding of Spanish and Spanish American culture, literature, and society; it also encourages students to refine and practice their language skills. In order to complete the concentration, students must take a minimum of 5 courses (15 credits), distributed as follows: Language competence must be demonstrated by successfully completing either SPANR 310 (Advanced Spanish Conversation and Pronunciation) or SPANR 311 (Advanced Spanish Composition and Conversation I). Concentrators must furthermore complete either SPANL 220 (Perspectives on Latin America) or SPANL 223 (Perspectives on Spain), as well as three elective courses to be chosen in consultation with the student's advisor. Among these electives, at least one course must be taken at the advanced 400 level.

Students wishing to enroll in the concentration must register their intent by contacting Professor M. A. Garcés (mg43@cornell.edu), director of undergraduate studies, 315 Morrill Hall, who will assign a faculty advisor to each concentrator.

Area Studies Option (Spanish, Latin American, or U.S. Latino Studies):

At least 15 credits of courses at the 300 level and above in any of these focus areas beyond the core, all courses to be approved through consultation with the major advisor. Courses should reflect interdisciplinary interests in the area and may include up to three other academic fields of interest. For example, a student interested in Latin American studies may want to include courses on such topics as Latin American history, government, rural sociology, and economics. Students who want to specialize in U.S. Latino issues may want to include such topics as sociology of Latinos, Latino history, and Latino medical issues in addition to further studies in literature. Students specializing in Spanish studies planning on spending a year or semester in Spain (but not exclusively such students) frequently plan their course work to emphasize Spanish history, art, political economy, and other related field courses, such as courses on Islam and Moorish or Jewish Spain.

Students are encouraged to enrich the major program by including a variety of courses from related fields or by combining Spanish with related fields such as history, philosophy, sociology, anthropology, art, music, classics, English, comparative literature, and other foreign languages and literatures. The interdepartmental programs in Latin American studies and Latino studies sponsor relevant courses in a variety of areas.

The J. G. White Prize and Scholarships are available annually to undergraduate students who achieve excellence in Spanish.

Study Abroad in Spain: Cornell, the University of Michigan, and the University of Pennsylvania co-sponsor an academic year in Spain program. Students enrolled in this program spend the first month before the fall semester begins in an orientation session at the University of Seville, where they take courses in Spanish language and culture and take advantage of special lectures and field trips in Andalusia. The College of Arts and Sciences awards 3 credits for orientation. Once the semester begins, students enroll in regular classes at the University of Seville and at the program's center facility. Center courses are designed for the program and include a seminar offered by the resident director, from the faculty of either Cornell, Michigan, or Pennsylvania. Other center courses typically include history of art, history of the Mediterranean region, a literature course, and Spanish composition and syntax. In Seville, students live in private homes and a rich array of cultural activities and excursions are organized every semester.

Applicants are expected to have completed SPANR 219 before departure. Completion of SPANR 311 is highly recommended. Students are strongly encouraged to study abroad for the entire year rather than one semester. Students interested in the study abroad program should visit Cornell Abroad in 474 Uris Hall and see the Cornell Abroad web site: www.einaudi.cornell.edu/cuabroad.

Study Abroad in Bolivia: The summer program in Cochabamba, Bolivia, is sponsored by the Latin American Studies Program and accepts both undergraduate and graduate students. Students live with Bolivian families and normally take two courses with Cornell faculty who participate in this program. In addition to course work in Bolivian culture, politics, and social movements, the program features the opportunity to do intensive study in Quechua, the native language spoken by many Bolivians, as well as Spanish, and to participate in research and internships with grass-roots communities, government offices, and businesses.

Honors: Honors in Spanish may be achieved by superior students who want to undertake guided independent reading and research in an area of their choice. Students in the senior year select a member of the Spanish faculty to supervise their work and direct the writing of their honors essay (see SPANL 429-430).

Language

Enrollment in a language course is conditional upon the student's eligibility for the particular level and on attendance of the first scheduled class session. Because of the high demand for language courses, a student who fails to attend the first class meeting will be dropped so others may register.

SPANR 112(1120) Elementary Spanish: Review and Continuation

Fall only. 4 credits. Prerequisite: LPS 37-44 or SAT II 370-450. Students who have taken SPANR 121 may enroll. S. Amigo-Silvestre (course coordinator), and staff.

Provides a basic review and then moves on to cover new material for the remainder of the semester. As part of the final exam, students take the LPS and, according to their score, may place into SPANR 123 (score below 56) or into the 200-level courses (score 56 or above).

SPANR 121-122(1210-1220) Elementary Spanish

121, fall and summer; 122, spring. 4 credits each semester. Intended for students with no experience in Spanish; students who have previously studied two or more years of Spanish may not attend unless they have LPS lower than 37 or SAT II lower than 370. Prerequisite: for 122, SPANR 121 or LPS 37-44 or SAT II 370-450. B. Teutli (course coordinator), M. Arellano, and staff.

Provides a thorough grounding in all language skills.

SPANR 123(1230) Continuing Spanish

Fall, spring, or summer. 4 credits. Prerequisite: SPANR 112 or 122, or LPS 45-55, or SAT II 460-580. Fall: M. K. Redmond (course coordinator), N. Maldonado-Méndez, L. Morato-Peña, and staff; spring: M. K. Redmond (course coordinator), S. Amigo-Silvestre, L. Morato-Peña, and staff; summer: A. Stratakis-Tiö.

Lower intermediate-level course providing an intensive grammar review in communicative contexts and practice in all skills. After this course, the student may take SPANR 200, 207, or 209.

SPANR 200(2000) Spanish for English/Spanish Bilinguals (also LSP 202(2020))

Fall. 4 credits. *Satisfies Option 1.* Prerequisite: LPS 56 or higher, SAT II 590 or higher, CASE placement, or permission of instructor. Not open to students who have taken SPANR 207 or 209. N. Maldonado-Méndez and staff.

Designed to expand bilingual students' knowledge of Spanish by providing them with ample opportunities to develop and improve each of the basic language skills.

SPANR 207(2070) Intermediate Spanish for the Medical and Health Professions

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: SPANR 123, LPS 56-64, or SAT II 590-680, Q on CASE exam, or permission of instructor. Students who have taken SPANR 200 or 209 should speak to instructor. A. Stratakis-Tiö.

Provides a conversational grammar review, with dialogues, debates, compositions, and readings on health-related themes. Special attention is given to relevant cultural differences.

SPANR 209(2090) Spanish Intermediate Composition and Conversation I

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: SPANR 123, LPS 56-64, or SAT II 590-680. Not open to students who have taken SPANR 200 or SPANR 207. J. Routier-Pucci (course coordinator), I. Auffret, C. Lawless, E. Sánchez-Blake, and staff; spring: J. Routier-Pucci (course coordinator), I. Auffret, C. Lawless,

N. Maldonado-Méndez, L. Meza-Riedewald, E. Sánchez-Blake, and staff.

Provides a conversational grammar review with special attention to the development of accurate and idiomatic oral and written expression. Assignments include composition-writing, reading and discussing Spanish and Spanish American short stories and poetry, and viewing several films.

SPANR 219(2190) Spanish Intermediate Composition and Conversation II

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: SPANR 207 or 209, or CASE Q+. Fall: Z. Iguina (course coordinator), and E. Dozier. Spring: E. Dozier (course coordinator), Z. Iguina, and N. Maldonado-Méndez.

Advanced-intermediate course designed for students who want to further broaden their knowledge of the language and related cultures, as well as improve their comprehension and communication skills.

SPANR 300(3000) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor. Staff.

Taught on a specialized basis to address particular student needs.

SPANR 310(3100) Advanced Spanish Conversation and Pronunciation

Fall or spring. 3 credits. *Satisfies Option 1.* Prerequisite: SPANR 219 or CASE Q++ or permission of instructor. Z. Iguina.

Conversation course with intensive oral practice obtained through the production of video programs. Students practice the fundamental aspects of communication in the standard spoken and written Spanish, with some focus on dialectal variations. There are weekly pronunciation labs.

SPANR 311(3110) Advanced Spanish Composition and Conversation I

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: SPANR 219 or CASE Q++ or equivalent. Fall: C. Lawless (course coordinator) and staff.

Advanced language skills developed through reading, grammar review and intensive practice in speaking and writing. The reader and DVD developed for the course provide a multimedia approach that enables students to hear the actual voices—and accents—of the authors from various regions of Spain and Spanish America, and to gain an awareness of their cultural milieu.

SPANR 312(3120) Advanced Spanish Composition and Conversation II

Fall or spring. 4 credits. *Satisfies Option 1.* Prerequisite: SPANR 311 or permission of instructor. E. Sánchez-Blake.

Readings and class discussion focus on the stylistic analysis of modern texts. Increased emphasis, through weekly essays, on students' development of an effective Spanish prose style.

SPANR 313(3130) Spanish Writing Workshop for Advanced English/Spanish Bilinguals

Fall. 1 credit. Prerequisite: permission of instructor. N. Maldonado-Méndez and staff.

Designed for the advanced bilingual seeking support in the development of written accuracy; this workshop can serve as a complement for a literature or culture course conducted in Spanish. Meets one hour per week, concurrently with one of the weekly sessions of SPANR 200. Students

enrolled in this course are expected to work autonomously, to keep up with the syllabus of SPANR 200, and to come to class with focused questions drawn from writing tasks either assigned from other courses, or prepared as self-assigned exercises. The workshop will be conducted in a peer-editing format. The final exam will consist of preparing a term paper in Spanish that demonstrates progress achieved in written accuracy. Students who have taken other Spanish language courses in the department including SPANR 200, and who have difficulties with writing identified as specific to the English/Spanish bilingual, are eligible to enroll in the 1 credit SPANR 313, with the instructor's permission. Course may be repeated for credit.

Literature**SPANL 214(2140) The Spanish Difference: Readings in Modern Iberian Literatures**

Fall or spring. 4 credits. Prerequisites: SPANR 207 or 209, CASE Q+, or permission of instructor. Conducted in Spanish. Fall: M. Stycos and staff; spring: J. M. Rodríguez-García and staff.

Introductory survey of modern Spanish literatures. Students develop their analytical skills and learn basic literary concepts such as genre (drama, lyric, short story and novel) and style (romanticism, realism, the fantastic, etc.) as well as male/female perspectives and the translation of literature to film language. The survey introduces students to Spain's cultural complexity through readings of works by authors representative of its diverse linguistic and literary traditions.

SPANL 215(2150) The Tradition of Rupture: Latin American Writing from Modernism to the Present (also LAT A 215(2150))

Fall or spring. 4 credits. Prerequisites: SPANR 207 or 209, or CASE Q+, or permission of instructor. Conducted in Spanish. Fall: J. M. Rodríguez-García and staff; spring: J. A. Hernández and staff.

Readings and discussion of representative texts of the 19th and 20th centuries from various regions of Spanish America. Among the authors considered are Sarmiento, Hernández, Martí, Darío, Agustini, Borges, Cortázar, García Márquez, Poniatowska, and Valenzuela.

SPANL 217(2170) Early Hispanic Modernities: Readings in Medieval and Early Modern Iberian and Spanish-American Literatures (also LAT A 217(2170))

Fall or spring. 4 credits. Prerequisites: SPANR 207 or 209, or placement by CASE Q+, or permission of instructor. Conducted in Spanish. Fall: M. A. Garcés; spring: S. Pinet.

This course explores major texts and themes of the Hispanic tradition from the 11th to the 17th centuries. We will examine general questions on literary analysis and the relationship between literature and history around certain events, such as Medieval multicultural Iberia, the creation of the Spanish Inquisition in the 15th century and the expulsion of the Jews in 1492; the encounter between the Old and the New Worlds; the 'opposition' high/low popular culture or the secular and the sacred in poetry and prose. Issues of representation regarding gender, identities, and subjectivity may also be studied. Readings may be drawn from

medieval short stories and miracle collections; chivalric romances, Columbus and the literary discovery, *Lazarillo de Tormes*, Cervantes, Lope de Vega, Calderón, and Sor Juana Inés de la Cruz, among others. Course will be conducted in Spanish.

SPANL 220(2200) Perspectives on Latin America (also HIST 251[2511], LAT A 220[2200]) @ (CA)

Spring. 3 credits. Highly recommended for Latin American studies concentrators.

Conducted in English. E. Paz-Soldán.

Interdisciplinary, co-taught course offered every spring through the Latin American Program. Topics vary by semester, but readings always focus on current research in various disciplines and regions of Latin America. The range of issues addressed include the economic, social, cultural, and political trends and transitions in the area. In the weekly meetings, instructors and guest lecturers facilitate student discussions. Students taking the course are required to participate in all class discussions and write one research paper in their chosen focus area.

SPANL 223(2230) Perspectives on Spain (LA)

Fall. 4 credits. Prerequisite: SPANR 219 or permission of instructor. Conducted in Spanish. C. Lawless.

An introduction to the history of Spain and its present day society. How did Spain come into existence, what cultures contributed to shape its national sense, what political alternatives were left behind or discarded, what are its strengths and weaknesses, its present and its possible futures? These and other questions will be discussed, combining the long view with emphasis on the contemporary period. Political, social, and cultural materials will be selected with the aim of providing a bare bones introduction to a complex society. This course is crucial to students who anticipate taking courses in Spanish literature and culture or plan to visit Spain.

SPANL 234(2340) Faith, Love and Adventure in Medieval Spain # (LA)

Spring. 4 credits. Conducted in Spanish. Prerequisite: SPANR 219, CASE Q++, or permission of instructor. S. Pinet.

Examines a wide variety of cultural objects and practices of Medieval Spain—from art objects to religious practices, from poetry to music—to address questions of identity, faith, institutions, historicity, and nation-building in multicultural Iberia. Students are expected to participate actively in class discussion and to prepare written critical analyses. Primary sources constitute the main corpus, but modern perspectives on the Spain of the Middle Ages are also included.

SPANL 246(2460) Contemporary Narratives by Latina Writers (also LSP/FGSS 246[2460]) (LA)

Fall. 3 credits. Conducted in English. L. Carrillo.

Survey of narratives, including novels, short fiction, essays, political/feminist manifestoes, and memoirs by representative Latina writers of various Latino ethnic groups in the United States and the Americas, including Chicana, Chilean, Cuban, Dominican, and Puerto Rican, among others. Investigates the parallel development of a Latina perspective on personal, social and cultural issues alongside that of the U.S. ethnic liberation/revitalization movements of the 1960s to contemporary feminist activism and women of color

movements. The course investigates these works as artistic attempts to deal with issues of culture, language and bilingualism, family, gender, sexuality, and domesticity among others. Regional distinctions and contributions are accounted for. Readings include works by Julia Alvarez, Elena Castedo, Sandra Cisneros, Judith Ortiz Cofer, Cristina García, Ana Lydia Vega, and others.

SPANL 247(2470) Spanish through Media and Culture

Fall. 3 credits. *Satisfies Option 1.*

Prerequisite: SPANR 219, CASE Q++, or permission of instructor. Conducted in Spanish. E. Sánchez-Blake.

Offers hands-on media analysis and production. Oriented to students with interest in Spain and Latin America and uses media to support research on topics in their areas of interest. Emphasizes intensive use of Spanish in a cultural context. Conducted in a computer classroom with access to electronic media and sources of information in the Spanish world. Students conduct a research project that is produced and presented as a news media program.

SPANL 248(2480) Poetry of the Latino Experience (also LSP 248[2480]) (LA)

Spring. 3 credits. L. Carrillo.

Survey of the central importance of poetry in the modern and contemporary Latino/a experience. Readings chart and critique the developments beginning in the civil rights struggles during the 1960s among Chicanos/as in the West and Southwest United States and among Nuyorican writers in the East Coast through to the 1980s development of feminist, lesbian, and gay poetry, the Cuban poets emerging as the "American" generation, and concluding with recent poetry produced in the atmosphere of immigration, labor issues, globalization, and the institutional academy.

SPANL 261(2610) The General and His Labyrinths: Representing Bolívar in Contemporary Latin American Culture (LA)

Fall. 3 credits. Prerequisites: SPANR 219, CASE Q++, or permission of instructor. Conducted in Spanish. J. A. Hernández.

The current sociopolitical situation in Latin America, particularly in the Andean countries, has once again directed attention to the thin line separating revolutionary action from dictatorial politics. Bolívar inhabited this fluid space. The Liberator was perceived by his own contemporaries as a self-deluded hero (Don Quijote). Our class discussions will survey Bolívar's main writings as well as the poems, pamphlets, and popular histories in which he was either denigrated or extolled. Special attention will be given to folk rituals, contemporary novels, theater plays, public art, and films that use the larger-than-life hero of the Spanish American Revolution of Independence as their main pre-text.

SPANL 301(3010) Hispanic Theater Production (also LAT A 301[3010])

Fall or spring. 1–3 credits. Fall: D. Castillo, spring: E. Sánchez-Blake.

Students develop a specific dramatic text for full-scale production. The course involves selection of an appropriate text, close analysis of the literary aspects of the play, and group evaluation of its representational value and effectiveness. All students in the course are involved in some aspect of production of the play, and write a final paper as a course requirement. Credit is variable depending

upon the student's role in play production: a minimum of 50 hours of work is required for 1 credit; a maximum of 2 credits are awarded for 100 hours or more of work.

SPANL 331(3310) Tales of Love and Lust (also NES 343[3430])

Fall. 4 credits. Prerequisites: two of the following courses: SPANL 214 (formerly 316), SPANL 215 (formerly 318), and SPANL 217 (formerly 319), or permission of instructor. Conducted in Spanish.

M. A. Garces.

The novella, a short fiction whose name alludes to both "novelty" and "news" (nouvelles), attained such perfection in the hands of Cervantes that he was called by one of his contemporaries "the Spanish Boccaccio." Despite the title of his collection, *Novelas ejemplares*, these narratives are not exemplary: their scenes of rape, seduction, adultery, and witchcraft not only challenged social structures and reigning ideologies, but also constituted daring literary experiments which question the status of fiction. This course will trace the development of the novella in the 17th-century Spain, studying a range of short fictions by Cervantes, María de Zayas, and other authors.

SPANL 333(3330) Latin American Short Story

Fall. 4 credits. Prerequisites: two of the following courses: SPANL 214 (formerly 316), SPANL 215 (formerly 318), and SPANL 217 (formerly 319), or permission of instructor. Conducted in Spanish.

E. Paz-Soldán.

The short story is one of the most prestigious genres of the Latin American tradition. In this course, we will trace the development of the genre in its modern version, from the modernistas in late 19th-century until present times. We will focus on the major canonical writers of the genre: Quiroga, Borges, Cortázar, Rulfo, García Márquez, Lispector.

SPANL 375(3750) Literature and Cinema of the Cuban Revolution

Spring. 4 credits. Prerequisites: SPANR 214 (formerly 316), SPANR 215 (formerly 318), and SPANR 217 (formerly 319) or permission of instructor. J. A. Hernandez.

An introduction to some of the most relevant cultural expressions created in Cuba after the triumph of the Revolution (1959). How did the movies, novels, short stories and poetry represent the conflicts generated by the Revolution? How were issues of class, race and gender expressed by filmmakers, poets and novelists? We will approach the above mentioned and other relevant topics (like the representation of Cuban nationhood and its relation to Latin America and the U.S.) reading authors like Alejo Carpentier, Jesús Díaz, Nicolás Guillén, Tomás Gutiérrez Alea, Sergio Giral, Nancy Morejón, Heriberto Padilla, José Lezama Lima and Reynaldo Arenas, among others.

SPANL 419–420(4190–4200) Special Topics in Hispanic Literature

419, fall; 420, spring. 2–4 credits each semester. Prerequisite: permission of instructor. Staff.

Guided independent study of specific topics. For undergraduates interested in special problems not covered in courses.

SPANL 429-430(4290-4300) Honors Work in Hispanic Literature

429, fall; 430, spring (yearlong). 8 credits. R grade fall semester, letter grade spring semester. Prerequisite: seniors with superior academic record; permission of instructor. M. A. Garcés and staff.

SPANL 431(4310) 20th-Century Poetry (LA)

Spring. 4 credits. Prerequisites: senior standing only; SPANL 217 (formerly 319), 214 (formerly 316) and 215 (formerly 318) or permission of instructor. Required of Spanish majors. Conducted in Spanish. J. M. Rodríguez-García.

How has 20th-century poetry shaped our modern consciousness and how has it in turn been shaped by the modernizing forces of positivism, liberalism, and secularization? The poetry of Spain and Spanish America written between 1900 and 1960 registers such perennial dichotomies as the celebration of the ephemeral and the nostalgia for transcendent truths; the need for solitude and the search for human fellowship; and the paradoxical attractions of primitivism and scientific progress. Through readings of canonical poems by the four most influential poets of 20th-century Spain (Antonio Machado, Juan Ramón Jiménez, Federico García Lorca, and Miguel Hernández) and the three Spanish American poets who have been awarded the Nobel Prize for Literature (Gabriela Mistral, Pablo Neruda, and Octavio Paz), we will examine a broad range of poetic modes and traditions. Special attention will be given to the political contexts informing the work of these poets as well as their ability to fuse the political, the elegiac, and the amorous impulses in lyrics of unsurpassed emotional power and beauty.

SPANL 433(4330) Literature of the 19th Century Hispanic Caribbean (also SPANL 633 [6330]) # (LA)

Fall. 4 credits. Prerequisites: SPANL 217 (formerly SPANL 319), 214 (formerly SPANL 316) and 215 (formerly 318) or permission of instructor. Conducted in Spanish. J. A. Hernández.

An introduction to the main topics of the 19th century Hispanic Caribbean. Nationalism, colonialism, race, slavery and abolitionism will be discussed. Authors like Martí, Saco, Hostos, Betances, Gómez de Avellaneda will be among our readings.

SPANL 442(4420) The City as Text (also COM L 448[4480])

Spring. 4 credits. Conducted in English. J. R. Resina.

For description, see COM L 446.

SPANL 444(4440) Spanish Novel of the Franco Era (also SPANL 644[6440]) (LA)

Spring. 4 credits. Prerequisites: SPANL 217 (formerly SPANL 319), 214 (formerly SPANL 316) and 215 (formerly SPANL 318) or permission of instructor. Conducted in Spanish. J. R. Resina.

Despite the exile of the majority of prestigious writers in 1939 and the dismal quality of the works published in the 40s, the novel begins to reassert itself in Spain in the 1950s and 60s. In this course we will trace the recuperation of this genre and the formation of an audience from the early work of Cela to the more experimental novels by Goytisolo and Benet. We will read selected works by authors such as Camilo José Cela, José María

Gironella, Ana María Matute, J. Amat-Piniella, Rafael Sánchez Ferlosio, Llorenç Villalonga, Luis Martín Santos, Juan Benet, María Aurelia Capmany, and Juan Goytisolo.

SPANL 450(4500) Literature of the Conquest (also SPANL 650 [6500]) # @ (LA)

Spring. 4 credits. Prerequisite: SPANL 217 (formerly SPANL 319), 214 (formerly SPANL 316) and 215 (formerly SPANL 318) or permission of instructor. Conducted in Spanish. M. A. Garcés.

This course examines the cultural and psychological impact of the "Discovery" on the literatures of the Old and the New World. In a voyage that takes us from the Caribbean to the mesetas of Ancient Mexico and the Andean regions of South America, we will explore the formation of various discourses on the New World through a close reading of 16th- and 17th-century European and Amerindian texts. Particular attention will be paid to the formation of an "American discourse" in the literary subjects who launched a counter-offensive against the political views of the colonizers. Reading selections may be drawn from Columbus, Cabeza de Vaca, Bartolomé de las Casas, Hernán Cortés, Bernal Díaz, Aztec and Maya Testimonies on the Conquest, Michel de Montaigne, Pedro Cieza de León, Inca Garcilaso de la Vega, Guaman Poma, and Alonso de Ercilla among others.

SPANL 480(4800) The Return of the Real: New Realisms in Latin American Narrative (also PORT 480[4800])

Fall. 4 credits. Prerequisites: SPANL 214 (formerly SPANL 316), SPANL 215 (formerly SPANL 318), and SPANL 217 (formerly SPANL 319) or permission of instructor. Conducted in Spanish. L. Horne.

For description see PORT 480.

SPANL 607(6070) Proseminar (also FRLIT/ITAL 607[6070])

Fall. 2 credits. D. Castillo and staff.

For description, see FRLIT 607.

SPANL 633(6330) Literature of the 19th Century Hispanic Caribbean (also SPANL 433[4330])

Fall. 4 credits. Conducted in Spanish. J. A. Hernández.

For description, see SPANL 433.

SPANL 639-640(6390-6400) Special Topics in Hispanic Literature

639, fall; 640, spring. 2-4 credits each semester. Staff.

SPANL 644(6440) Spanish Novel of the Franco Era (also SPANL 444[4440])

Spring. 4 credits. Conducted in Spanish. J. R. Resina.

For description, see SPANL 444.

SPANL 650(6500) Literature of the Conquest (also SPANL 450[4500])

Spring. 4 credits. Conducted in Spanish. M. A. Garcés.

For description, see SPANL 450.

SPANL 667(6670) Modern Lyric Forms

Fall. 4 credits. J. M. Rodríguez-García.

Are poetry and literary translation intrinsically "empty forms" [formas vacías]? Has it always been so, since at least the 17th century, for poets interested in effecting a "linguistic turn" in lyric discourse? The tropes of silence, fragmented bodies, and empty forms are all constituent elements of the anti-romantic

strand of modernist poetics. More generally, they enjoyed great currency among Spanish-language poets of both the 17th and the 20th centuries. The authors featured in this course include numerous self-reflexive lyricists whose contribution to either "pure poetry" or the so-called "writing of the body" (or both) has long been recognized. This is the case with Luis de Góngora, Francisco de Rioja, Sor Juana Inés de la Cruz, Stéphane Mallarmé, Wallace Stevens, Juan Ramón Jiménez, Jorge Guillén, and especially Octavio Paz. The Mexican author's ideas about language, poetry, translation, and history will be discussed in the context of his engagement with baroque, symbolist, and surrealist traditions of writing. A substantial part of the course will focus on the work of translator-poets, from Francisco de Quevedo to Andrés Sánchez Robayna.

SPANL 690(6900) Hispanic Feminisms

Spring. 4 credits. Conducted in Spanish. D. Castillo.

This seminar is designed to explore the interrelationship of feminist literary theory and the narrative production of the Hispanic world. We will be looking at key literary and theoretical texts that grounded the 1980s boom in attention to women's literature (Castellanos, Valenzuela, Franco, Sommer, Martín-Márquez) through more recent interest in lesbian/gay/queer theory (Molloy, Blanco, Muñoz) and transgender theory (Sifuentes-Jauregui, Carrier, Prieur). As case studies we will be looking at examples from a range of sub-genres: best-sellers, testimonios, popular culture and high art texts and films.

RUSSIAN

N. Pollak, chair (on leave 2006-2007); P. Carden, acting chair (fall 2006) and director of undergraduate studies (on leave spring 2007) (226B Morrill Hall, 255-8350); S. Paperno, director of Russian language program (226E Morrill Hall); W. Browne (on leave fall 2006), R. Krivitsky, S. Senderovich (on leave fall 2006), G. Shapiro, V. Tsimberov. Visiting: K. Bättig von Wittelsbach, G. Golkowska, G. Nehler

For updated information, consult our web sites:

(literature) www.arts.cornell.edu/russian (language) <http://russian.cornell.edu>

The Russian Major

Russian majors study Russian language, literature, and linguistics and emphasize their specific fields of interest. It is desirable, although not necessary, for prospective majors to complete RUSSA 121-122, 203-204, and RUSSL 209 as freshmen and sophomores, because these courses are prerequisites to most of the junior and senior courses that count toward the major. Students may be admitted to the major upon satisfactory completion of RUSSA 122 or the equivalent. Students who elect to major in Russian should consult the director of undergraduate studies as soon as possible. For a major in Russian, students are required to complete (1) RUSSA 303-304 or the equivalent, and (2) 18 credits from 300- and 400-level literature and linguistics courses, of which 12 credits must be in literature in the original Russian.

With the permission of the instructor, students may add 1 credit to certain literature courses

by registering for RUSSA 491. Such courses involve a one-hour section each week with work in the Russian language. Students may count two 1-hour credits toward the 12 hours of Russian literature in the original language required for the major.

Satisfying the Foreign Language Requirement

1. Under Options 1a and 1b:

1a. Any Russian-language (RUSSA) course totaling 3 or 4 credits at the 200 level or above (with the exception of RUSSA 300 Directed Study) satisfies the Arts and Sciences language requirement under Option 1a.

1b. Under Options 1a and 1b: After completing the prerequisites RUSSA 121 and RUSSA 122, students may satisfy the language requirement by taking RUSSL 209. Students who qualify may satisfy the language requirement by taking RUSSL 212. Other RUSSL courses that are taught in Russian may also be used when appropriate.

2. Under Option 2:

- In two semesters: RUSSA 103 and 121 in the fall, RUSSA 104 and 122 in the spring.
- In three semesters: RUSSA 121 in the fall, 122 in the spring, 203 the following fall.
- In four semesters: RUSSA 121 in the fall, 122 in the spring, 125 the following fall, 126 the following spring.

Study Abroad

Students from Cornell frequently participate in the Council on International Educational Exchange and the American Council of Teachers of Russian programs for language study, as well as other Russian language programs. Opportunities are available for study during the summer, a single semester, or the full year. Further information is available from Professor Wayles Browne in the Department of Linguistics (220 Morrill Hall) and from the Cornell Abroad Office.

Honors. Students taking honors in Russian undertake individual reading and research and write an honors essay. Students planning to take honors should consult the director of undergraduate studies in their junior year.

Russian Language

Detailed information and schedules of the Russian language courses, as well as office hours of the instructors, are available at: <http://russian.cornell.edu>.

Suggested tracks for first- and second-year Russian language study:

- First-year intensive: 103 + 121 in the fall, 104 + 122 in the spring
- First-year nonintensive: 121 in the fall, 122 in the spring
- Second-year intensive: 125 + 203 in the fall, 126 + 204 in the spring
- Second-year nonintensive: 203 in the fall, 204 in the spring
- Second-year "mostly reading; lighter load": 125 in the fall, 126 in the spring

RUSSA 103-104(1103-1104)

Conversation Practice

103, fall; 104, spring. 2 credits each semester. Students must enroll in one sec of 103 and one sec of 121 in fall and one sec of 104 and one sec of 122 in spring. R. Krivitsky.

Reinforces the speaking skills learned in RUSSA 121 and 122. Homework includes assignments that must be done in the language lab or on the students' own computers.

RUSSA 121-122(1121-1122) Elementary Russian through Film

121, fall or summer; 122, spring or summer. 4 credits each semester.

Prerequisite for RUSSA 122, RUSSA 121.

R. Krivitsky, S. Paperno, and V. Tsimberov.

Gives a thorough grounding in all the language skills: listening, speaking, reading and writing. Course materials include clips from original Russian films and TV programs. Homework includes assignments that must be done in the language lab or on the students' own computers.

RUSSA 125-126(1125-1126) Reading Russian Press

125, fall; 126, spring. 2 credits each semester. Sec. 1 for non-native speakers of Russian; sec. 2 for native speakers of Russian. Prerequisite for 125 sec. 1: RUSSA 122 or placement by department; prerequisite for 126 sec. 1: RUSSA 125 or placement by department; prerequisite for 125 and 126 sec. 2: placement by department. Times TBA with instructors.* See starred (*) note at end of RUSSA section. S. Paperno and V. Tsimberov.

The emphasis is on reading unabridged articles on a variety of topics from current Russian periodicals and web pages and translating them into English; a certain amount of discussion (in Russian) may also be undertaken.

RUSSA 203-204(2203-2204) Intermediate Composition and Conversation

203, fall; 204, spring. 3 credits each semester. Prerequisite: for RUSSA 203, RUSSA 122 and 104, or RUSSA 122 with grade higher than B, or placement by department; for RUSSA 204, RUSSA 203 or equivalent. R. Krivitsky, S. Paperno, and V. Tsimberov.

Guided conversation, translation, reading, pronunciation, and grammar review, emphasizing the development of accurate and idiomatic expression in the language. Course materials include video clips from an original Russian feature film and work with Russian web sites.

RUSSA 300(3300) Directed Studies

Fall or spring. 1-4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.* See starred (*) note at end of RUSSA section. Staff.

Taught on a specialized basis for students with special projects (e.g., to supplement a non-language course or thesis work).

RUSSA 303-304(3303-3304) Advanced Composition and Conversation

303, fall; 304, spring. 4 credits each semester. Prerequisite: for RUSSA 303, RUSSA 204 or equivalent; for RUSSA 304, RUSSA 303 or equivalent. R. Krivitsky, S. Paperno, and V. Tsimberov.

Reading, writing, and conversation: current Russian films (feature and documentary), newspapers, TV programs, Russian web sites, and other materials are used. In some years,

completing interviews with native speakers of Russian is a component of RUSSA 304.

RUSSA 305-306(3305-3306) Reading and Writing for Heritage Speakers of Russian

305, fall; 306, spring. 2-3 credits, variable. Prerequisite: placement by department. Times TBA with instructor.* Please see starred (*) note at end of RUSSA section. Course may be cancelled if enrollment is insufficient. S. Paperno and R. Krivitsky.

Intended for students who speak grammatically correct Russian but do not know Russian grammar and have not learned to read or write Russian well (or have not learned written Russian at all). The two courses are very similar and do not constitute a sequence. Each may be taught slightly faster or slower in a given year, depending on the needs and interests of the students. Two classes a week teach writing and grammar and include related reading. These classes are required, and the students who take them receive 2 credit hours. The third (optional) class teaches reading and discussion, and grants an additional credit hour.

RUSSA 308(3308) Russian Through Popular Culture

Spring. 2-3 credits, variable. Prerequisite: RUSSA 304 for non-native speakers of Russian; RUSSA 305 or 306 for heritage speakers of Russian; for all others with advanced knowledge of Russian, placement by department. Not open to fluent native speakers of Russian (recommended: RUSSA 309/310 and RUSSL courses). Conducted in Russian. Times TBA with instructor.* Please see starred (*) note at end of RUSSA section. R. Krivitsky.

Aims to expand the students' vocabulary and their comprehension, speaking, reading, and writing skills, as well as cultural competence, through a mosaic study and discussion of a variety of styles in contemporary Russian popular culture (1970's through the present). Course materials include traditional and urban folklore, film, animation, published texts (prose and poetry), and recordings of songs. Includes two or three essays or similar writing assignments. Work is distributed so that a student may attend all three weekly meetings for 3 credit hours or only two of the meetings for 2 credit hours.

RUSSA 309-310(3309-3310) Advanced Reading

309, fall; 310, spring. 4 credits each semester. Sec. 1 for non-native speakers of Russian; sec. 2 for native speakers of Russian. Prerequisites: for sec. 1 of RUSSA 309, RUSSA 204; for RUSSA 310, RUSSA 309 or equivalent; for sec. 2 of 309 and 310, placement by department. Times TBA with instructors.* See starred (*) note at end of RUSSA section. May be canceled if enrollment is insufficient. S. Paperno and V. Tsimberov.

Designed to teach advanced reading and discussion skills. In section 1, weekly reading assignments include 20-40 pages of unabridged Russian, fiction or nonfiction. In section 2, the weekly assignments are 100-130 pages. Discussion of the reading is conducted entirely in Russian and centered on the content of the assigned selection.

RUSSA 401(4401) History of the Russian Language (also LING 417[4417]) (HA)

Spring. 4 credits. W. Browne.

For description, see LING 417-418.

[RUSSA 403(4403) Linguistic Structure of Russian (also LING 443[4443]) (KCM)]

Fall. Next offered 2007-2008.

For description, see LING 443-444.]

RUSSA 413-414(4413-4414) Advanced Conversation and Stylistics

413, fall; 414, spring. 2 credits each semester. Prerequisites: for RUSSA 413, RUSSA 304 or equivalent; for RUSSA 414, RUSSA 413 or equivalent. Times TBA with instructor.* Please see starred (*) note at end of RUSSA section. V. Tsimberov.

Involves discussion of authentic Russian texts and films (feature or documentary) in a variety of nonliterary styles and genres.

RUSSA 491(4491) Reading Course: Russian Literature in the Original Language

Fall or spring. 1 credit each semester.

Prerequisite: permission of instructor. Times TBA with instructor.* Please see starred (*) note at end of RUSSA section. Staff.

To be taken in conjunction with any Russian literature course at the advanced level. Students receive 1 credit for reading and discussing works in Russian in addition to their normal course work.

[RUSSA 601(6601) Old Church Slavonic (also LING 661[6661])]

Fall. Next offered 2007-2008.

For description, see LING 661.]

[RUSSA 602(6602) Old Russian Texts (also LING 662[6662])]

Spring. Next offered 2007-2008.

For description, see LING 662.]

RUSSA 633-634(6633-6634) Russian for Russian Specialists

633, fall; 634, spring. 1-4 credits, variable.

Prerequisite: four years of college Russian or equivalent. Times TBA with instructor.* Please see starred (*) note at end of RUSSA section. Staff.

Designed for students whose areas of study require advanced active control of the language. Fine points of syntax, usage, and style are discussed and practiced. Syllabus varies from year to year.

[RUSSA 651(6651) Comparative Slavic Linguistics (also LING 671[6671])]

Fall. Next offered 2007-2008.

For description, see LING 671.]

For courses marked "Times TBA with instructor ()" taught by Wayles Browne, contact Professor Browne (ewb2@cornell.edu or 255-0712) for the time and place of his organizational meeting.

Russian Literature

A variety of courses is offered in Russian literature. Readings may be in English translation or in the original Russian or both (see course descriptions). Instruction often encompasses culture and intellectual history as well as literature. Some courses are cross-listed with appropriate departments.

First-Year Writing Seminars: consult the John S. Knight Institute brochure for times, instructors, and descriptions. Next offered 2008-2009.

[RUSSL 207-208(2207-2208) Themes from Russian Culture # (LA)]

Spring. 3 credits. In translation. Offered alternate years; next offered 2008-2009. G. Shapiro.

These courses are based on lectures, discussions, and audio-visual presentations and cover various aspects of Russian culture, such as literature, art, architecture, music, religion, philosophy, and social thought. RUSSL 207 extends through the 18th century, and RUSSL 208 covers the 19th and 20th centuries.]

RUSSL 209(2209) Readings in Russian Prose and Poetry # (LA)Fall. 3 credits. *Satisfies Option 1.*

Prerequisite: For students with 2+ semesters of Russian language (RUSSA 121/122 or equivalent). Readings in Russian/discussion in English. G. Shapiro.

Short classics of 19th-20th centuries, including Pushkin, Dostoevsky, Tolstoy, Blok, Pasternak. Assignments adjusted for native fluency. May be used as a prerequisite for RUSSL 300-400 courses with reading in Russian.

RUSSL 212(2212) Readings in 20th-Century Russian Literature (LA)Spring. 3 credits. *Satisfies Option 1.*

G. Shapiro.

Goals are to introduce students to 20th-century Russian literature in the original and to improve their Russian reading and writing skills. Readings are from 20th-century masters such as Bunin, Bulgakov, and Nabokov. All reading, writing, and discussion in Russian. Course designed for students with native background needing another course to satisfy the language requirement. May be used as a prerequisite for RUSSL 300-400 courses with reading in Russian.

[RUSSL 279(2279) The Russian Connection, 1830 to 1867 (also COM L 279[2790]) # (LA)]

4 credits. Next offered 2008-2009.

P. Carden.

Examines Russian prose of mid-19th century (Lermontov, Tolstoy) against background of European prose (Rousseau, Musset, Stendhal, Thackeray, et al.).

[RUSSL 280(2280) The Russian Connection, 1870 to 1960 (also COM L 280[2800]) (LA)]

4 credits. Next offered 2008-2009.

P. Carden.

Examines the Dostoevskian novel against background of European prose (Diderot, Camus, Sarraute, et al.).

RUSSL 331(3331) Introduction to Russian Poetry # (LA)

Spring. 4 credits. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. S. Senderovich.

A survey of Russian poetry, with primary emphasis on the analysis of individual poems by major poets.

[RUSSL 332(3332) Russian Drama and Theater (also THETR 322[3220]) # (LA)]

4 credits. Next offered 2008-2009.

S. Senderovich.

19th-20th century plays (Gogol, Ostrovsky, Chekhov). Historical period, cultural atmosphere, literary trends. In translation.]

[RUSSL 333(3333) 20th-Century Russian Poetry (LA)]

4 credits. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2008-2009. N. Pollak.

Close readings of lyrics by major 20th-century poets. All readings are in Russian.]

[RUSSL 334(3334) The Russian Short Story # (LA)]

Fall. 4 credits. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2008-2009. P. Carden. Survey two centuries of Russian storytelling. Analysis of individual stories by major writers. Emphasis on narrative structure and on related landmarks of Russian literary criticism.]

RUSSL 335(3335) Gogol # (LA)

Spring. 4 credits. G. Shapiro. Selected works of Gogol are read closely and viewed in relation to his life and to the literature of his time. Readings are in English translation.

[RUSSL 337(3337) Films of Russian Literary Masterpieces (also COM L 338[3380]) (LA)]

4 credits. Next offered 2008-2009.

S. Senderovich.

Comparative analysis of American films based on Russian novels: *War and Peace* and *Dr. Zhivago*. Problems of translation between media and cultures.]**[RUSSL 338(3338) Lermontov's Hero of Our Time # (LA)]**

Spring. 4 credits. Next offered 2008-2009. N. Pollak.

Mikhail Lermontov's *Hero of Our Time* has been called the first major Russian novel. Readings in Russian, with attention to linguistic and literary problems.]**RUSSL 350(3350) Education and the Philosophical Fantasies (also COM L 350[3500]) # (LA)**

Fall. 4 credits. P. Carden.

A major philosophical tradition has conceived of education as encompassing the whole of our lives. What we should do or be is seen as the result of every choice we make. The whole of our human context is understood as a school in which we form ourselves. This all-encompassing vision of education has been embodied in the works of the great philosopher-fantasists who use the forms of fiction to explore fundamental issues of education. Students examine several key philosophical fantasies, among them Plato's *Republic*, Rousseau's *Emile*, and Tolstoy's *War and Peace*. The aim is to understand how the discourse on education became a central part of our modern tradition.**[RUSSL 367(3367) The Russian Novel # (LA)]**

Spring. 4 credits. Next offered 2008-2009. Students who read Russian may sign up for a discussion section of the Russian text for 1 credit (RUSSA 491). N. Pollak.

The rise of the Russian novel in the 19th century: Pushkin, Lermontov, Turgenev, Dostoevsky, Tolstoy, Chekhov. Readings in translation.]

[RUSSL 368(3368) 20th-Century Russian Literature (LA)]

Spring. 4 credits. In translation. Students who read Russian may sign up for discussion of Russian text for 1 credit (RUSSA 491). In translation. Next offered 2007-2008. G. Shapiro.

A survey of 20th-century Russian prose, including such writers as Bunin, Bulgakov, and Nabokov, as well as Solzhenitsyn, Shalamov, and Voinovich.]

[RUSSL 369(3369) Dostoevsky # (LA)

Fall. 4 credits. Limited to 40 students. Next offered 2007–2008. P. Carden.

A survey of Dostoevsky's major novels: *Notes from Underground*, *Crime and Punishment*, *The Idiot*, and *The Brothers Karamazov*. Readings in English translation.]

[RUSSL 373(3373) Chekhov in the Context of Contemporary European Literature and Art # (LA)

4 credits. Next offered 2008–2009. S. Senderovich.

Anton Chekhov's stories in the context of the European art of the short story and contemporary paintings. Readings in English translation.]

[RUSSL 385(3385) Reading Nabokov (also ENGL 379(3790)) (LA)

Fall. 4 credits. Limited to 18 students; priority given to seniors. G. Shapiro.

Offers an exciting trip into the intricate world of Nabokovian fiction. After establishing himself in Europe as a distinguished Russian writer at the outbreak of World War II, Nabokov came to the United States, where he re-established himself as an American writer of world renown. In our analysis of the Nabokovian artistic universe, we focus on his Russian corpus of works, from *Mary* (1926) to *The Enchanter* (writ. 1939), all in English translation, and examine the two widely read novels that he wrote in Ithaca while teaching literature at Cornell, *Lolita* (1955) and *Invitation to a Beheading* (1957).

[RUSSL 393(3393) Honors Essay Tutorial

Fall and spring. 8 credits. Must be taken in two consecutive semesters in senior year; credit for first semester is awarded upon completion of second semester. For information, see director of undergraduate studies. Times TBA with instructor. Staff.

[RUSSL 409(4409) Russian Stylistics (LA)

Spring. 4 credits. Also open to graduate students. Prerequisite: proficiency in Russian or permission of instructor. This course may be counted toward the 12 credits of Russian literature in the original language for the Russian major. Next offered 2008–2009. S. Senderovich.

Beyond normative grammar. Introduction to idiomatic Russian (morphology, syntax, vocabulary, phraseology) and genres of colloquial and written language. Development of writing skills.

[RUSSL 415(4415) Post-Symbolist Russian Poetry (LA)

4 credits. Prerequisite: proficiency in Russian or permission of instructor. This course may be counted toward the 12 credits of Russian literature in the original language for the Russian major. Next offered 2008–2009. N. Pollak.

Verse, critical prose, and literary manifestos by selected early 20th-century Russian poets, including Annenskii, Pasternak, and Mandelstam.]

[RUSSL 430(4430) Practice in Translation (LA)

Spring. 4 credits. Prerequisite: proficiency in Russian or permission of instructors. Next offered 2007–2008. W. Browne and S. Senderovich.

Practical workshop in translation: documents, scholarly papers, literary works (prose and poetry). Mostly Russian to English, some English to Russian.]

[RUSSL 432(4432) Pushkin # (LA)

Spring. 4 credits. Prerequisite: proficiency in Russian or permission of instructor. May be counted toward 12 credits of Russian literature in original language for Russian major. Next offered 2007–2008. S. Senderovich.

Reading in the original language and discussion of selected works by Pushkin: lyrics, narrative poems, and *Eugene Onegin*.]

[RUSSL 433(4433) Short Works of Tolstoy

Fall. 4 credits. Prerequisite: RUSSL 209 or 212 or equivalent mastery of Russian language skills. P. Carden.

A selection of short stories and short novels will be read in the original Russian text. Class discussion will focus on the themes and style of Tolstoy's writings, with particular attention to his use of the Russian idiom. The assignments will be adjusted to take into account the language capabilities of those enrolled. Discussion and papers will be in English.

[RUSSL 437(4437) A Moralist and a Pornographer (LA)

Spring. 4 credits. Limited to 15 students. Next offered 2008–2009. S. Senderovich.

Bestsellers *Doctor Zhivago* and *Lolita* (both October 1958) concerned the sexual exploitation of a teenage girl. Pasternak's novel, hailed as highbrow and highly moral, received the Nobel Prize. Nabokov's novel, perceived as a pornographic text, could not be published in the U.S.]

[RUSSL 492(4492) Supervised Reading in Russian Literature

Fall or spring. 1–4 credits each semester. Independent study. Prerequisite: students must find an advisor and submit a plan before signing up. Times TBA with instructor. Staff.

[RUSSL 493(4493) Anton Chekhov # (LA)

4 credits. Prerequisite: proficiency in Russian or permission of instructor. Next offered 2008–2009. S. Senderovich.

Major works of Chekhov in Russian; focus on style and language. Readings include stories ("Anna on the Neck," "Darling," "Steppe") and plays (*Uncle Vanya* and *Seagull*.)]

[RUSSL 499(4499) The Avant-Garde in Russian Literature and the Arts (LA)

Fall. 4 credits. Prerequisite: proficiency in Russian or permission of instructor. Next offered 2007–2008. P. Carden.

Literature, theater, and the visual arts in the richly innovative period 1890–1920.]

Graduate Seminars**[RUSSL 605(6605) Russian Analytical Approaches to Literature**

Fall. 4 credits. Prerequisite: proficiency in Russian or permission of instructor. Next offered 2008–2009. Staff.

Russian critical and theoretical approaches to literature (19th–20th centuries) against the background of contemporary American and European critical theory. Veselovsky, Tynianov, Jakobson, Bakhtin, Senderovich.]

[RUSSL 611(6611) Supervised Reading and Research

Fall or spring. 2–4 credits each semester. Prerequisite: proficiency in Russian or permission of instructor. Times TBA with instructor. Staff.

Related Languages**Czech****CZECH 300(3300) Directed Studies**

Spring. 1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.** See double-starred (**) note at end of UKRAN section. W. Browne.

Taught on a specialized basis to address particular student needs.

Hungarian**[HUNGR 131–132(1131–1132) Elementary Hungarian**

3 credits. Prerequisite: For 132: HUNGR 131 or permission of instructor. This language series (131–132) is not sufficient to satisfy the language requirement. Next offered 2007–2008. G. Nehler.

Teaches the basic grammar of Hungarian. Designed to aid the student in all facets of language acquisition: speaking, listening comprehension, reading, and writing. Second-semester Hungarian (132) teaches more advanced grammar of the language at an intermediate level.]

[HUNGR 133–134(1133–1134) Continuing Hungarian

133, fall; 134, spring. 3 credits. Prerequisite: for 133, HUNGR 132 or permission of instructor; for 134, HUNGR 133 or permission of instructor. This language series (133–134) is not sufficient to satisfy the language requirement. G. Nehler.

A conversation and reading course designed to aid the student in all facets of language acquisition: speaking, listening comprehension, reading, and writing. Fourth-semester Hungarian (134) teaches more advanced instruction of the language at an intermediate level.

[HUNGR 300(3300) Directed Studies

1–4 credits, variable. Prerequisite: permission of instructor. Times TBA with instructor.** See double-starred (**) note at end of UKRAN section. Next offered 2007–2008. Staff.

Taught on a specialized basis to address particular student needs.]

[HUNGR 427(4427) Structure of Hungarian (also LING 427(4427)) (KCM)

Next offered 2008–2009. For description, see LING 427.]

Polish**[POLSH 131–132(1131–1132) Elementary Polish**

131, fall; 132, spring. 3 credits each semester. Prerequisite: for POLSH 132, POLSH 131 or equivalent. This language series (131–132) is not sufficient to satisfy the language requirement. Offered alternate years. K. Golkowska.

Covers all language skills: speaking, listening comprehension, reading, and writing.

[POLSH 133–134(1133–1134) Continuing Polish

133, fall; 134, spring. 3 credits each semester. Prerequisites: for POLSH 133, POLSH 132 or permission of instructor; for POLSH 134, POLSH 133 or equivalent. Times TBA with instructor. **Offered alternate years; next offered 2007–2008. See double-starred (**) note at end of UKRAN section. Staff.

An intermediate conversation and reading course.]

POLSH 300(3300) Directed Studies

Fall or spring. 1-4 credits, variable.
Prerequisite: permission of instructor.
Times TBA with instructor.** See double-starred (**) note at end of UKRAN section.
K. Golkowska.

Taught on a specialized basis to address particular student needs.

POLSH 301(3301) Polish through Film and Literature

Spring. 3 credits. *Satisfies Option 1.*
Prerequisite: POLSH 134 or permission of instructor. Times TBA with instructor.**
K. Golkowska.

All-skills course designed to build communicative proficiency in the language and provide insight into Polish culture. Short videos, films, and contemporary texts chosen for their thematic interest and linguistic accessibility provide the basis for practice in listening and reading comprehension, guided conversation, and a grammar review.

Serbo-Croatian

[SEBCR 131-132(1131-1132) Elementary Serbo-Croatian

131, fall; 132, spring. 3 credits each semester. Prerequisite for SEBCR 132: SEBCR 131 or equivalent. This language series (131-132) is not sufficient to satisfy language requirement. Times TBA with instructor.** Offered alternate years; next offered 2007-2008. See double-starred (**) note at end of UKRAN section. Staff.

Covers all language skills: speaking, listening comprehension, reading, and writing. Includes Bosnian.]

[SEBCR 133-134(1133-1134) Continuing Serbo-Croatian

133, fall; 134, spring. 3 credits each semester. Prerequisite for SEBCR 133: SEBCR 132 or equivalent; for SEBCR 134: SEBCR 133 or equivalent. Times TBA with instructor.** See double-starred (**) note at end of UKRAN section. Offered alternate years; next offered 2008-2009. Staff.

An intermediate conversation and reading course.]

SEBCR 300(3300) Directed Studies

Fall or spring. 1-4 credits variable.
Prerequisite: permission of instructor.
Times TBA with instructor.** See double-starred (**) note at end of UKRAN section.
Staff.

Taught on a specialized basis to address particular student needs.

SEBCR 302(3302) Advanced Serbo-Croatian

Fall. 3 credits. Prerequisite: SEBCR 134 or permission of instructor. K. Bättig von Wittelsbach.

Includes Bosnian as well as Croatian and Serbian. This is a third-year course with intensive speaking and writing practice. Selections from a variety of fictional and argumentative texts, as well as video materials illustrative of contemporary South Slavic societies (Croatia, Bosnia and Herzegovina, Serbia, Montenegro), will provide basis for discussions and essays. Review of select grammar topics is included. Students' grade will be based on participation, compositions, oral presentations, grammar exercises and a final exam.

Ukrainian

UKRAN 300(3300) Directed Studies

Spring. 1-4 credits variable. Prerequisite: permission of instructor. Times TBA with instructor.** See double-starred (**) note at end of section. W. Browne.

Taught on a specialized basis to address particular student needs.

**For these courses, contact Professor Browne (ewb2@cornell.edu or 255-0712) for time and place of organizational meeting(s).

SANSKRIT

See "Asian Studies."

SCIENCE AND TECHNOLOGY STUDIES

T. J. Pinch, chair (309 Rockefeller Hall, 255-6048); R. N. Boyd, P. R. Dear, S. H. Hilgartner, R. Kline, C. Leuenberger, B. V. Lewenstein, M. Lynch, A. G. Power, R. Prentice, J. V. Reppy, M. W. Rossiter, P. J. Sengers, S. Seth, K. Vogel. Emeritus: W. R. Lynn, L. P. Williams. Adjunct faculty: R. W. Miller, H. Shue, Z. Warhaft

In today's world, issues at the intersection of the technical and the social arise continually in all aspects of life, from the role of computers in society, the history of evolutionary theory, and the challenges of environmental controversies, to the ethical dilemmas of genomics and biomedicine. The field of science and technology studies (S&TS) addresses such issues through the study of the social aspects of knowledge, especially scientific and technological knowledge. S&TS explores the practices that shape science and technology, examines their social and cultural context, and analyzes their political and ethical implications. S&TS provides a strong liberal arts background from which students can go on to careers in law, medicine, environmental policy, business, and a variety of other professions where the social aspects of science and technology loom large.

The Science and Technology Studies Major

S&TS courses are organized into a set of core courses plus three themes. Students select the theme that best represents their interests. In consultation with a faculty member, students may devise their own theme as long as it meets the general criteria of coherence and rigor.

Admission to the Major

Students intending to major in Science and Technology Studies should submit an application during their sophomore year. Juniors are considered on a case-by-case basis. The application includes (1) a one-page statement explaining the student's intellectual interests and why the major is consistent with the student's academic interests and goals; (2) the theme the student wishes to pursue in the major; (3) a tentative plan of courses fulfilling S&TS requirements; and (4) an up-to-date transcript of work completed at Cornell University (and elsewhere, if applicable).

Acceptance into the major requires completion of the following prerequisites:

1. S&TS 101 and 102, or S&TS 101 or 102 and an additional Social Science or Humanities course. (Students who have not taken S&TS 101 or 102, but have taken a different S&TS course and an additional Social Science or Humanities course should contact the S&TS department for guidance about whether those courses can substitute for the prerequisites.)
2. the science and quantitative requirement of the College of Arts and Sciences;

These courses cannot be used to fulfill the core or other course requirements for the major and must be taken for a letter grade. Sophomores in the process of completing these prerequisites may be admitted to the major on a *provisional* basis. Further information and application materials are available in 306 Rockefeller Hall (255-6047).

Requirements

S&TS majors must complete the following requirements:

Note: All courses used to fulfill major requirements must be taken for a letter grade, which must be C- or above.

1. Core: one course in each of the following groups (a-c).
 - a. Foundation (S&TS 201)
 - b. Ethics (choose from S&TS 205, 206, 360, or 490)
 - c. History (choose from S&TS 233, 250, 281, 282, 330, 355, 357, 447, 458, or 475)
2. Theme: Students must elect a theme and take four courses in the theme. Courses taken to satisfy the core course requirements may not be used as part of the required four courses in the theme. At least two of the courses should be at the 300 level or higher, and at least one should be at the 400 level.

Available themes are:

- a. Minds and Machines (S&TS 212, 250, 281, 282, 286, 292, 349, 354, 355, 356, 381, 387, 400, 409, 422, 431, 453, 481)
- b. Science, Technology, and Public Policy (S&TS 281, 282, 324, 331, 352, 357, 360, 390, 391, 401, 407, 411, 412, 433, 442, 444, 466, 468, 471, 473, 483, 487, 490)
- c. Life in Its Environment (S&TS 205, 206, 233, 281, 282, 285, 286, 287, 301, 311, 324, 331, 333, 411, 412, 420, 422, 431, 444, 447, 468, 471, 487, 495, or 496)

In consultation with an S&TS faculty advisor, students may also devise their own theme as long as it meets the general criteria of coherence and rigor.

3. Additional Science and Technology Studies Courses: additional courses to total 34 credit hours in the major, chosen from the general list of S&TS courses.
4. Science Requirement: in addition to the science requirement of the College of Arts and Sciences, Science and Technology Studies majors are required to take an additional two semesters of a natural science or engineering (including computer science). Mathematics sufficient to provide background for the additional

science requirement should be completed before undertaking that requirement. Choice of these courses should be made in consultation with the student's major advisor and should be related to the theme selected by the student.

The Honors Program

The honors program is designed to provide independent research opportunities for academically talented S&TS majors. Students who enroll in the honors program are expected to do independent study and research, with faculty guidance, on issues in science and technology studies. Students who participate in the program should find the experience intellectually stimulating and rewarding whether or not they intend to pursue a research career. S&TS majors are considered for entry into the honors program at the end of the second semester of their junior year. To qualify for the S&TS honors program, students must have an overall Cornell cumulative grade point average (GPA) of at least 3.00 and a 3.30 cumulative GPA in courses taken for the major. Additionally, the student must have formulated a research topic, and have found a project supervisor and a second faculty member willing to serve as the advisors; at least one of these must be a member of the S&TS department. More information on the honors program is available from the S&TS undergraduate office at 306 Rockefeller Hall (255-6047).

The Biology and Society Major

The Department of Science and Technology Studies also offers the Biology and Society major, which includes faculty from throughout the university. The Biology and Society major is designed for students who wish to combine the study of biology with exposure to perspectives from the social sciences and humanities. In addition to providing a foundation in biology, Biology and Society students obtain background in the social dimensions of modern biology and in the biological dimensions of contemporary social issues.

The Biology and Society major is offered to students enrolled in the College of Arts and Sciences, the College of Human Ecology, and the College of Agriculture and Life Sciences. The major is coordinated for students in all colleges through the Biology and Society office. Students can get information, specific course requirements, and application procedures for the major from the office in 306 Rockefeller Hall, 255-6047.

A full description of the Biology and Society major can be found on p. 477 of this catalog.

The Concentration in Science and Technology Studies

T. J. Pinch, chair; R. N. Boyd, P. R. Dear, S. H. Hilgartner, R. Kline, C. Leuenberger, B. V. Lewenstein, M. Lynch, A. G. Power, R. Prentice, J. V. Reppy, M. W. Rossiter, P. J. Sengers, S. Seth, K. Vogel. Emeritus: W. R. Lynn, L. P. Williams. Adjunct faculty: R. W. Miller, H. Shue, Z. Warhaft

The concentration (or minor) in Science and Technology Studies (S&TS) is designed for students who wish to engage in a systematic, interdisciplinary exploration of the role of science and technology in modern societies. The concentration is intended for students with varied academic interests and career

goals. Majors in the natural sciences and engineering have an opportunity to explore the social, political, and ethical implications of their selected fields of specialization, while students majoring in the humanities and social sciences have a chance to study the processes, products, and impacts of science and technology from an S&TS perspective.

To satisfy the requirements for the S&TS concentration, students must complete with letter grades of C- or above a minimum of four courses selected from the course offerings listed for the major. At least one course must be chosen from the list of core courses. Two courses must be chosen from one of the themes listed below:

1. Minds and Machines
2. Science, Technology, and Public Policy
3. Life in Its Environment

The concentration is completed with one other course in S&TS. Interested students may obtain further information about courses and a list of course descriptions by contacting the S&TS undergraduate office, 306 Rockefeller Hall (255-6047).

Course Offerings

Introductory Course

Core Courses

Foundation Course

Ethics

History

Theme Courses

Minds and Machines

Science, Technology, and Public Policy

Life in Its Environment

Independent Study

Graduate Seminars

First-Year Writing Seminars

Consult the John S. Knight Institute web site for times, instructors, and descriptions. Web site: www.arts.cornell.edu/Knight_institute/index.html.

Introductory Courses

S&TS 101(1101) Science and Technology in the Public Arena (SBA)

Fall. 3 credits. S&TS 101 and 102 may be taken separately or in any order.

Recommended as introduction to field; not required and may not be used to fulfill a major requirement. J. Reppy.

Introduction to public policy issues involving developments in science and technology. Studies such topics as secrecy and national security, the politics of expertise, public understanding of science, computers and privacy, and the management of risk. Applies concepts from the field of science and technology studies to analyze how issues are framed and public policy produced.

S&TS 102(1102) Histories of the Future (CA)

Spring. 3 credits. Recommended as introduction to field; not required and may not be used to fulfill a major requirement. S&TS 101 and 102 may be taken separately or in any order. R. Prentice.

From *Frankenstein* to *The Matrix*, science fiction and film have depicted contemporary science, technology, and medicine for almost two centuries. This course introduces students to historical and social studies of science and technology using science fiction films and novels, as well as key readings in science and technology studies. What social questions can fictional accounts raise that factual ones can only anticipate? How have "intelligent machines" from Babbage's Analytical Engine to Hal raised questions about what it means to be human? What can Marvel Comics teach us about changes in science and technology? When can robots be women and, in general, what roles did gender play in scientific, technological, and medical stories? How was the discovery that one could look inside the human body received? How do dreams and nightmares of the future emerge from the everyday work of scientific and technological research?

Core Courses

Foundation Course

S&TS 201(2011) What Is Science? An Introduction to the Social Studies of Science and Technology (also SOC 210[2100]) (CA)

Spring. 3 credits. K. Lambert.

Introduces some of the central ideas in the field of Science and Technology Studies (S&TS). As well as serving as an introduction to students who plan to major in Biology and Society or in Science and Technology Studies, the course is aimed at students with backgrounds in either the sciences or the humanities who are challenged to think more critically about what we mean by science, what counts as scientific knowledge and why, and how science and technology intervene in the wider world. The course is a mixture of lecture, discussion, and other activities. The discussion sections are an integral part of the course and attendance is required. In addition, a series of written assignments throughout the semester and a take-home final during exam week compose the majority of the grade.

Ethics

S&TS 205(2051) Ethical Issues in Health and Medicine (also B&SOC 205[2051]) (KCM)

Fall. 4 credits. Limited to 150 students.

S. Hilgartner.

For description, see B&SOC 205.

S&TS 206(2061) Ethics and the Environment (also B&SOC 206[2061], PHIL 246[2460]) (KCM)

Spring. 4 credits. Limited to 50 students.

P. Doing.

For description, see B&SOC 206.

S&TS 360(3601) Ethical Issues in Engineering (also ENGRG 360[3600])

Spring. 3 credits. Limited to juniors and seniors only. P. Doing.

For description, see ENGRG 360.

History

S&TS 233(2331) Agriculture, History, and Society: From Squanto to Biotechnology (HA)

Fall. 3 credits. M. Rossiter.

For description, see "Life in Its Environment" theme.

**S&TS 250(2501) Technology in Society
(also ENGRG/ECE/HIST 250[2500])
(HA)**

Fall. 3 credits. Offered alternate years.
R. Kline.

For description, see ENGRG 250.

**S&TS 281(2811) Science in Western
Civilization (also HIST 281[2810]) #
(HA)**

Fall. 4 credits. P. Dear.

For description, see HIST 281.

**S&TS 282(2821) Science in Western
Civilization (also HIST 282[2820]) #
(HA)**

Spring. 4 credits. S&TS 281 is *not* a
prerequisite to 282. P. Dear.

For description, see HIST 282.

**S&TS 330(3301) Physical Sciences in the
Modern Age (also HIST 329[3290])
(HA)**

Spring. 4 credits. K. Lambert.

Examines the history of the physical sciences in Europe and the United States from 1800 to the present. Students study such topics as the development of thermodynamics and electrodynamics, the quantum and relativity theories, science during the world wars, and post-war "big science." As well as a history of ideas, the course emphasizes the broader historical contexts in which physical science has been produced, focusing on issues raised in relation to Romanticism, the first and second industrial revolutions, social statistics, train travel, and the military-industrial-scientific complex, among others. Reading for the course ranges from primary source material (original papers by Thomson, Helmholtz, Planck, and Einstein) to extracts from Mary Shelley's *Frankenstein* and Michael Frayn's *Copenhagen*.

**[S&TS 357(3571) Engineering in
American Culture (also ENGRG/HIST
357[3570])**

Fall. 3 credits. Next offered 2007-2008.

R. Kline.

For description, see ENGRG 357.]

**S&TS 447(4471) Seminar in the History
of Biology (also BIOEE 467[4670],
B&SOC 447[4471], HIST 415[4150])
(PBS)**

Summer and fall. 4 credits. W. Provine and
K. Kennedy.

For description, see BIOEE 467.

**S&TS 458(4581) Intelligibility in Science
(also HIST 458[4580])**

Spring. 4 credits. P. Dear.

For description, see HIST 458.

**S&TS 474(4741) Science and Race: A
History (also S HUM 404)**

Fall. 4 credits. Limited to 15 students.

S. Seth.

For description, see S HUM 404.

**[S&TS 475(4751) Historical Issues of
Science, Technology, Race, and
Colonialism (also HIST 464[4640])
(HA)**

Fall. 4 credits. Next offered 2007-2008.

S. Seth.]

**S&TS 476(4761) Science, Technology,
Colonialism (also S HUM 426)**

Spring. 4 credits. Limited to 15 students.

S. Seth.

For description, see S HUM 426.

Theme Courses

Minds and Machines

**S&TS 250(2501) Technology in Society
(also ECE/ENGRG/HIST 250[2500])
(HA)**

Fall. 3 credits. Offered alternate years.

R. Kline.

For description, see ENGRG 250.

**S&TS 281(2811) Science in Western
Civilization (also HIST 281[2810]) #
(HA)**

Fall. 4 credits. P. Dear.

For description, see HIST 281.

**S&TS 282(2821) Science in Western
Civilization (also HIST 282[2820]) #
(HA)**

Spring. 4 credits. P. Dear.

For description, see HIST 282.

**S&TS 286(2861) Science and Human
Nature (also PHIL 286[2861]) (KCM)**

Spring. 4 credits. R. Boyd.

For description, see PHIL 286.

**S&TS 292(2921) Inventing an Information
Society (also ECE/ENGRG 298[2980],
HIST 292[2920]) (HA)**

Spring. 3 credits. R. Kline.

For description, see ENGRG 298.

**S&TS 349(3491) Media Technologies
(also INFO 349[3491], COMM
349[3490]) (HA)**

Spring. 3 credits. Offered alternate years.

T. Gillespie.

For description, see COMM 349.

**S&TS 354(3541) The Sociology of
Contemporary Culture (also SOC
352[3520]) (CA)**

Fall. 4 credits. C. Leuenberger.

Introduces students to the rapidly expanding body of work at the intersection of sociology, cultural studies, and science and technology studies. Provides an introduction to theoretical debates in cultural studies and to sociological studies of culture. Discusses the emergence of the tourist industry, the significance of consumption in modern life, the culture of music and art, the use of rhetoric in social life, cultural and feminist analyses of knowledge and science, and the social construction of self, bodies, and identities.

**S&TS 355(3551) Computers: From
the 17th Century to the Dot.com
Boom (also INFO 355[3551], COMM
355[3550]) (HA)**

Fall. 4 credits. No technical knowledge of
computer use is presumed or required.

S&TS 355 and 356 can be taken separately
or in any order. K. Lambert.

Computers have not always been ubiquitous boxes gracing our desktops: in Victorian London, Charles Babbage tried to build an analytical engine using brass gears and steel rods, and during World War II the Allied governments used sophisticated electro-mechanical and electronic "brains" to break Axis codes. How did computing technology, once useful only to technical specialists, come to colonize industry, academia, the military, and the home? This course explores the history of computing, placing ideas and technologies in social and historical context: for example, it relates Charles Babbage's difference engines to the factory system, IBM to the population census, and feedback systems and Turing machines to the demands of war. Looking at the history of the computer

teaches something of how technology, society and knowledge depend on and change one another. It also helps students discover something about the relationship between machines and society today. This is a course in the history of computing; a background in computer science is not required.

**[S&TS 356(3561) Computing Cultures
(also INFO/VISST 356[3560], COMM
356[3560]) (CA)**

Spring. 4 credits. No technical knowledge
of computer use presumed or required.

S&TS 355 and 356 may be taken separately
or in any order. Next offered 2007-2008.

P. Sengers and R. Prentice.

Computers are powerful tools for working, playing, thinking, and living. Laptops, PDAs, webcams, cell phones, and iPods are not just devices, they also provide narratives, metaphors, and ways of seeing the world. This course critically examines how computing technology and society shape each other and how this plays out in our everyday lives. Identifies how computers, networks, and information technologies reproduce, reinforce, and rework existing cultural trends, norms and values. Looks at the values embodied in the cultures of computing and consider alternative ways to imagine, build, and work with information technologies.]

**S&TS 381(3811) Philosophy of Science:
Knowledge and Objectivity (also
PHIL 381[3810]) (KCM)**

Fall. 4 credits. R. Boyd.

For description, see PHIL 381.

**[S&TS 387(3871) The Automatic
Lifestyle: Consumer Culture and
Technology (also INFO 387[3871])
(CA)**

Spring. 4 credits. Next offered 2007-2008.

P. Sengers.]

**S&TS 400(4001) Components and
Systems: Engineering in a
Social Context (also M&AE
400/401[4000/4010])**

Spring. 3 credits. Offered alternate years.

Z. Warhaft.

For description, see M&AE 400.

**S&TS 409(4091) From the Phonograph to
Techno (also SOC 409[4090])**

Spring. 4 credits. T. Pinch.

In this seminar, we treat music and sound and the ways they are produced and consumed as socio-cultural phenomena. We specifically investigate the way that music and sounds are related to technology and how such technologies and sounds have been shaped by and have shaped the wider society and culture of which they are a part. We look at the history of sound technologies like the phonograph, the electronic music synthesizer, samplers, and the Sony walkman. Our perspective is drawn from social and cultural studies of science and technology. Students are encouraged to carry out a small original research project on their own favorite sound technology.

**S&TS 422(4221) New York Women (also
FGSS 422[4220], HIST 445[4450])**

Fall. 4 credits. M. Rossiter.

For description, see S&TS 422 Life in Its
Environment Theme.

**S&TS 431(4311) From Surgery to
Simulation (SBA)**

Spring. 4 credits. R. Prentice.

A cliché among medical professionals says,
"If you have a hammer, every problem

looks like a nail." In other words, treatment decisions often are dictated by available technologies. This course looks at medical technologies from dissection to x-rays to antidepressants and the ways they shape how medical professionals look at and practice upon the human body. Takes a broad view of technology, encompassing systems of practice that shape how work is conducted and the body is understood, as well as specific machines and treatments with specific uses. Considers how these technologies often are not only treatments for individual patients but also metaphors for larger cultural questions.

S&TS 453(4531) Knowledge and Society (also SOC 453[4530]) (CA)

Fall. 4 credits. Limited to 15 students.
C. Leuenberger.

Focuses on the historical evolution of the sociology of knowledge as a theoretical paradigm and an empirical research field. Examines the phenomenological origins of the sociology of knowledge and many of its central texts. Studies how it has been applied to such areas as personhood, interaction, religion, identity, and the emotions. Also considers epistemological questions that arise, and cover various theoretical and empirical approaches that have been influenced by the sociology of knowledge such as ethnomethodology, conversation analysis, and the sociology of science and technology.

S&TS 468(4681) Understanding Innovation

Fall. 4 credits. J. Reppy.
For description, see S&TS 468 Science, Technology and Public Policy.

S&TS 481(4811) Philosophy of Science (also PHIL 481[4810], S&TS 681[6811]) (KCM)

Spring. 4 credits. R. Boyd.
For description, see PHIL 681.

Science, Technology, and Public Policy

S&TS 281(2811) Science in Western Civilization (also HIST 281[2810]) # (HA)

Fall. 3 credits. P. Dear.
For description, see HIST 281.

S&TS 282(2821) Science in Western Civilization (also HIST 282[2820]) # (HA)

Spring. 4 credits. P. Dear.
For description, see HIST 282.

S&TS 324(3241) Environment and Society (also D SOC 324[3240]) (SBA)

Fall and spring. 3 credits. Fall, C. Geisler; spring, G. Gillespie.
For description, see D SOC 324.

S&TS 331(3311) Environmental Governance (also B&SOC 331[3311], NTRES 331[3310]) (CA)

Spring. 3 credits. S. Wolf.
For description, see NTRES 331.

S&TS 352(3521) Science Writing for the Mass Media (also COMM 352[3520])

Fall. 3 credits. B. Lewenstein.
For description, see COMM 352.

[S&TS 357(3571) Engineering in American Culture (also ENGRG 357[3570], AM ST 356[3570], HIST 357[3570])

Fall. 4 credits. Offered alternate years; next offered 2007–2008. R. Kline.
For description, see ENGRG 357.]

S&TS 360(3601) Ethical Issues in Engineering (also ENGRG 360[3600])

Spring. 3 credits. P. Doing.
For description, see ENGRG 360.

S&TS 391(3911) Science in the American Polity, 1960 to Now (also GOVT 309[3091], AM ST 389[3911]) (SBA)

Spring. 4 credits. S. Hilgartner.
Reviews the changing political relations between science, technology, and the state in America from 1960 to the present. It focuses on the politics of choices involving science and technology in a variety of institutional settings, from Congress to courts and regulatory agencies. The tensions and contradictions between the concepts of science as an autonomous republic and as just another special interest provide a central theme for the course. Topics addressed include research funding, technological controversies, scientific advice, citizen participation in science policy, and the use of experts in courts.

[S&TS 401(4011) Genomics and Society (also NS 401[4010])

Fall. 3–4 credits. Taught in Washington, D.C. D. Pelletier.
For description, see NS 401.]

S&TS 407(4071) Law, Science, and Public Values (also B&SOC 407[4071]) (SBA)

Spring. 4 credits. M. Lynch.
Examines problems that arise at the interface of law and science. These problems include the regulation of novel technology, the role of technical expertise in public decision-making, and the control over scientific research. The first part of the course covers basic perspectives in science and technology studies (S&TS) and how they relate to legal decisions and processes. The second part covers a series of examples and legal cases on the role of expert judgments in legal and legislative settings, intellectual property considerations in science and medicine, and legal and political oversight of scientific research. The final part examines social processes and practices in legal institutions, and relates these to specific cases of scientific and technological controversy. Lectures and assignments are designed to acquaint students with relevant ideas about the relationship between legal, political, and scientific institutions, and to encourage independent thought and research about specific problems covered in the course.

S&TS 411(4111) Knowledge, Technology, and Property (SBA)

Spring. 4 credits. Prerequisite: one course in science and technology studies.
S. Hilgartner.
Should the human genome be treated as private property or a public resource? How should copyright be managed in the digital environment of the Internet? Is music "sampling" high-tech theft or artistic expression? Does bioprospecting represent an enlightened strategy for preserving biodiversity or a post-colonial means for transferring resources from the developing world to the North? Debate about the nature and scope of intellectual property is an increasingly salient feature of contemporary politics. This course examines the ownership of knowledge and technology, exploring fundamental tensions that intellectual property systems express and incompletely reconcile. Perspectives from science and technology studies, sociology, law, and economics inform the course.

Case studies explore the construction of property in contexts ranging from the early history of copyright to the ownership of life forms, airwaves, algorithms, artistic content, electronic databases, and the personal identities of celebrities.

[S&TS 412(4101) Science, Technology, and Culture (also COM L 410[4100]) (CA)

Fall. 4 credits. Next offered 2007–2008.
A. Banerjee.
For description, see COM L 410.]

S&TS 433(4331) International History of Science # (HA)

Spring. 4 credits. M. Rossiter.
Survey of the major scientific events and institutions in several foreign nations, including developing countries. Covers the period 1660 to the present and gives some attention to who in each country becomes a scientist, who rises to the top, and who emigrates. Weekly readings and a research paper.

S&TS 444(4441) Historical Issues of Gender and Science (also FGSS 444[4440]) (CA)

Spring. 4 credits. Not open to freshmen.
M. Rossiter.
For description, see "Life in Its Environment" theme.

S&TS 466(4661) Public Communication of Science and Technology (also COMM 466[4660])

Spring. 3 credits. Limited to 15 students.
B. Lewenstein.
For description, see COMM 466.

S&TS 468(4681) Understanding Innovation

Fall. 4 credits. J. Reppy.
Ideas about innovation occupy a central place in any description of our era, whether the topic is economic growth, military power, or globalization. The course will explore different ways of understanding the innovation process, the institutions and practices that are meant to foster innovation, and the issues that governments face when they seek to regulate innovations. We will read across a range of literature in economics, history, and science and technology studies.

S&TS 471(4711) The Dark Side of Biology: Biological Weapons, Bioterrorism, and Biocriminality (also B&SOC 471[4711]) (SBA)

Fall. 4 credits. K. Vogel.
For description, see B&SOC 471.

S&TS 483(4831) The Military and New Technology (also GOVT 483[4837]) (SBA)

Spring. 4 credits. K. Vogel.
For description, see GOVT 483.

[S&TS 487(4871) Seminar in the History of the Environment (HA)

Fall. 4 credits. Next offered 2007–2008.
M. Rossiter.]

[S&TS 490(4901) The Integrity of Scientific Practice (KCM)

Fall. 4 credits. Next offered 2007–2008.
S. Hilgartner.]

Life in Its Environment

S&TS 205(2051) Ethical Issues in Health and Medicine (also B&SOC 205[2051]) (KCM)

Fall. 4 credits. S. Hilgartner.
For description, see B&SOC 205.

S&TS 206(2061) Ethics and the Environment (also B&SOC 206[2061], PHIL 246[2460]) (KCM)

Spring. 4 credits. P. Doing.
For description, see B&SOC 206.

S&TS 233(2331) Agriculture, History, and Society: From Squanto to Biotechnology (HA)

Fall. 3 credits. M. Rossiter.
Surveys the major themes in the development of agriculture and agribusiness in the United States in the 19th and 20th centuries. These include particular individuals (e.g., Liberty Hyde Bailey, Luther Burbank, G. W. Carver, Henry A. Wallace, and Norman Borlaug), the rise of government support and institutions (including U.S.D.A. and Cornell), noteworthy events (the dust bowl, World War II, and the environmental movement), and the achievements of the Green and "Gene" Revolutions.

S&TS 281(2811) Science in Western Civilization (also HIST 281[2810]) # (HA)

Fall. 3 credits. P. Dear.
For description, see HIST 281.

S&TS 282(2821) Science in Western Civilization (also HIST 282[2820]) # (HA)

Spring. 4 credits. P. Dear.
For description, see HIST 282.

S&TS 285(2851) Communication in the Life Sciences (also COMM 285[2850])

Spring. 3 credits. B. Lewenstein.
For description, see COMM 285.

S&TS 286(2861) Science and Human Nature (also PHIL 286[2861]) (KCM)

Spring. 4 credits. R. Boyd.
For description, see PHIL 286.

S&TS 287(2871) Evolution (also BIOEE 207[2070], HIST 287[2870]) (PBS)

Fall. 3 credits. W. Provine.
For description, see BIOEE 207.

S&TS 301(3011) Life Sciences and Society (also B&SOC 301[3011]) (SBA)

Spring. 4 credits. M. Lynch.
For description, see B&SOC 301.

S&TS 311(3110) Sociology of Medicine (SBA)

Spring. 4 credits. Not open to freshmen.
C. Leuenberger.
Provides an introduction to the ways in which medical practice, biomedical technology, and the medical profession are embedded in society and shaped by social phenomena. Accountability to patients and the public, and struggles over the control of medical practice in a world where medicine is connected to gender, class, race, and personal autonomy are important overarching themes. This course examines the structure of the medical profession; medical training and professional socialization; the social organization of the hospital; and doctor-patient interactions. Also explores how biomedical knowledge and technology are produced, assessed, and introduced into clinical practice. Topics may include the intensive-care unit, the training of surgeons, the regulation of pharmaceuticals, AIDS and breast cancer activism, genetic testing, and priority setting in biomedical science.

S&TS 324(3241) Environment and Society (also D SOC/SOC 324[3240]) (SBA)

Fall and spring. 3 credits. Fall, C. Geisler; spring, G. Gillespie.
For description, see D SOC 324.

S&TS 331(3311) Environmental Governance (also B&SOC 331[3311], NTRES 331[3310]) (CA)

Spring. 3 credits. S. Wolf.
For description, see NTRES 331.

S&TS 409(4091) From the Phonograph to Techno (also SOC 409[4090])

Spring. 4 credits. T. Pinch.
In this seminar, we treat music and sound and the ways they are produced and consumed as socio-cultural phenomena. We specifically investigate the way that music and sounds are related to technology and how such technologies and sounds have been shaped by and have shaped the wider society and culture of which they are a part. We look at the history of sound technologies like the phonograph, the electronic music synthesizer, samplers, and the Sony walkman. Our perspective is drawn from social and cultural studies of science and technology. Students are encouraged to carry out a small original research project on their own favorite sound technology.

S&TS 411(4111) Knowledge, Technology, and Property (SBA)

Spring. 4 credits. Prerequisite: one course in science and technology studies.
S. Hilgartner.

For description, see S&TS 411, "Science, Technology, and Public Policy" theme.

[S&TS 412(4101) Science, Technology, and Culture (also COM L 410[4100]) (CA)

Fall. 4 credits. Next offered 2007-2008.
A. Banerjee.

For description, see COM L 410.]

S&TS 420(4201) The Darwinian Scientific Revolution (also B&SOC 420[4201]) (HA)

Fall. 4 credits. Offered only fall 2006.
K. Lambert.

For description, see B&SOC 420.

S&TS 422(4221) New York Women (also HIST 445[4450], FGSS 422[4220])

Fall. 4 credits. M. Rossiter.
Over the centuries New York State has been the site of activity for a great many women of consequence. This course is a one-semester survey of the past and present activities and contributions of rural and urban women in a variety of fields of interest to Cornell students—politics, medicine, science, the law, education, business (including hotels), entertainment, communications, government, labor, religion, athletics, the arts and other areas. Weekly readings and discussion and a paper, possibly using local or university archives. Limited to 15 students.

S&TS 431(4311) From Surgery to Simulation (SBA)

Spring. 4 credits. R. Prentice.
For description, see "Minds and Machines."

S&TS 444(4441) Historical Issues of Gender and Science (also FGSS 444[4440]) (CA)

Spring. 4 credits. Not open to freshmen.
M. Rossiter.

A one-semester survey of women's role in science and engineering from antiquity to the 1980s, with special emphasis on the United

States in the 20th century. Readings include biographies and autobiographies of prominent women scientists, educational writings and other primary sources, and recent historical and sociological studies. By the end of the semester, students attain a broad view of the problems that have faced women entering science and those that still remain.

S&TS 447(4471) Seminar in the History of Biology (also B&SOC 447[4471], HIST 415[4150], BIOEE 467[4670]) (PBS)

Summer and fall. 4 credits. Limited to 18 students. S-U grades optional. W. Provine and K. Kennedy.

For description, see BIOEE 467.

S&TS 471(4711) The Dark Side of Biology: Biological Weapons, Bioterrorism, and Biocriminality (also B&SOC 471[4711]) (SBA)

Fall. 4 credits. K. Vogel.
For description, see B&SOC 471.

[S&TS 487(4871) Seminar in the History of the Environment (HA)

Spring. 4 credits. Next offered 2007-2008.
M. Rossiter.]

[S&TS 495(4951) Social Studies of the Human Sciences (CA)

Spring. 4 credits. Next offered 2007-2008.
C. Leuenberger.

Explores how the human and social sciences have provided the knowledge and categories we use to make sense of people and their behavior. Looking across a range of disciplines—including sociology, psychology, psychiatry, and economics—the course examines how human beings have become objects of scientific investigation. Discusses the rise of the human sciences and their role in politics, culture, and society.]

S&TS 496(4961) Medicine and Healing in China (also HIST 496[4960], B&SOC 496[4961], ASIAN 469[4469])

Spring. 4 credit. T. Hinrichs.
For description, see HIST 496.

Independent Study

S&TS 399(3991) Undergraduate Independent Study

Fall, spring. 1-4 credits. No more than 8 hours total of independent study (not including honors) can count toward S&TS major. Prerequisite: permission of instructor.

More information and applications available in 306 Rockefeller Hall.

S&TS 499(4991/4992) Honors Project

Fall and spring (yearlong)*. Prerequisite: senior S&TS students by permission of department; overall Cornell cumulative GPA of 3.00 and 3.30 cumulative GPA in courses taken for major. Apply in 306 Rockefeller Hall.

Students admitted to the honors program are required to complete two semesters of honors project research and to write an honors thesis. The project must include substantial research, and the completed work should be of wider scope and greater originality than is normal for an upper-level course. The student must find a project supervisor and a second faculty member willing to serve as faculty reader; at least one of these must be a member of the S&TS department.

*Students must register for total credits desired for the whole project each semester (e.g., 8 credits for the fall semester and 8 credits for the spring semester). After the fall semester, students will receive a letter grade of "R" for the first semester with a letter grade for both semesters submitted at the end of the second semester whether or not they complete a thesis, and whether or not they are recommended for honors. Minimally, an honors thesis outline and bibliography should be completed during the first semester. In consultation with the advisors, the director of undergraduate studies will evaluate whether the student should continue working on an honors project. Students should note that these courses are to be taken in addition to those courses that meet the regular major requirements. If students do not complete the second semester of the honors project, they must change the first semester to independent study to clear the "R" and receive a grade. Otherwise, the "R" will remain on their record and prevent them from graduating.

Graduate Seminars

[S&TS 626(6261) Seminar in the History of Technology (also HIST 525[5250])

Spring. 4 credits. Next offered 2007–2008. R. Kline.

Exploration of the history of technology in Europe and the United States from the 18th century to the present. Typical topics include the industrial revolution in Britain, the emergence of engineering as a profession, military support of technological change, labor and technology, the "incorporation" of science and engineering, technological utopias, cultural myths of engineers and inventors, social aspects of urbanization in the city and on the farm, post-war consumerism, and gender and technology. The interests of students and recent literature in the field are considered in selecting the topics for the seminar.]

S&TS 627(6271) Making People Through Expert Knowledge

Spring. 4 credits. C. Leuenberger. This seminar explores how the human and social sciences have provided the knowledge and categories we use to make sense of human beings and their behavior. Looking across a range of disciplines—including sociology, psychiatry, psychology, psychoanalysis, anthropology, and economics—we will look at how human beings have become objects of scientific investigation. We will focus on how culture, politics, and the professional environment impact the human sciences and how the use of rhetoric constitutes academic discourse. We will also focus on the social scientific construction of selves, sex, gender, and race.

[S&TS 628(6281) Self and Society

Fall. 4 credits. Next offered 2007–2008. C. Leuenberger.

How has the self become a political, scientific, and cultural project caught up in the ideological battles of modern times? What roles do cultural institutions, politics and science play in making human beings visible, understandable, and treatable? Students in this course will read and discuss texts at the intersection of sociology, cultural studies, history of the human and behavioral sciences, and science and technology studies that treat the self as a social construction. The course focuses on how culture, politics, science, as well as bureaucratic and economic imperatives

help shape modern and postmodern conceptions of the self.]

S&TS 630(6301) Social Theory for Science Studies

Fall. 4 credits. R. Prentice.

Sociologist C. Wright Mills challenged his readers to develop their "sociological imaginations" to understand the social and historical forces at work in seemingly individual events, such as the receipt of a pink slip, a draft card, or a drug prescription. Within science and technology studies, scholars have documented how social issues can become scientific, technological, or medical, often appearing to leave the social realm altogether to become biological, technical, or pathological. The best social constructivist work in Science and Technology Studies reveals how scientific, technological, and medical worlds are thoroughly social; that is, theories of social structure and action underpin the best empirical work in the field. This course introduces graduate students to classic texts and concepts in social theory with a focus on applying such theories to empirical research in science, technology, and medicine. It will consider major thinkers and schools of social thought, such as Marx, Weber, Durkheim, Mannheim, Foucault, and the Frankfurt School. It will also consider how a nuanced interplay of theory and empirical data can bring critically important insights to both theoretical and empirical understandings of the world.

S&TS 631(6311) Qualitative Research Methods for Studying Science (also SOC 631[6310])

Spring. 4 credits. M. Lynch.

Much has been learned about the nature of science by sociologists and anthropologists donning lab coats and studying scientists in action. This course looks at the methods used in this new wave of science studies. Examines what can be learned by interviewing scientists, from videos, and from detailed examinations of scientific texts. Students gain hands-on experience by conducting a mini-project in which they investigate some aspect of scientific culture.

S&TS 632(6321) Inside Technology: The Social Construction of Technology (also SOC 632[6320])

Fall. 4 credits. T. Pinch.

Rather than analyze the social impact of technology upon society, this course investigates how society gets inside technology. In other words, is it possible that the very design of technologies embody assumptions about the nature of society? And, if so, are alternative technologies, which embody different assumptions about society, possible? Do engineers have implicit theories about society? Is technology gendered? How can we understand the interaction of society and technology? Throughout the course the arguments are illustrated by detailed examinations of particular technologies, such as the ballistic missile, the bicycle, the electric car, and the refrigerator.

S&TS 634(6341) Information Technology in Sociocultural Context

Fall. 4 credits. P. Sengers.

Analyzes information technology using historical, qualitative, and critical approaches. Discusses questions such as: In what ways is information technology—often portrayed as radically new—actually deeply historical? How do information technologies represent

and intervene in debates and struggles among people, communities, and institutions? How is the design of information technology tools entangled in the realms of law, politics, and commerce? In what ways are the social consequences of information technologies produced as much by the claims we make about the technologies as about the raw functionality of the tools themselves? This course investigates these issues through the lenses of long-standing debates and current controversies.

[S&TS 640(6401) Science, Technology, Gender: Historical Issues (also FGSS 640[6400], HIST 641[6410])

Spring. 4 credits. Next offered 2007–2008. S. Seth.

Explores five, often interrelated, aspects of the literature on gender, science, and technology: (1) The historical participation of women (and men) in scientific work, (2) the embodiment of scientific, medical and technical knowledge, (3) the scientific construction of sexuality, (4) the gendering of technological systems and artifacts, and (5) feminist critiques of scientific knowledge. Examines the origins of modern western science in the scientific revolution, considering the claim that "science," by its very nature, is an andocentric enterprise. The rise of scientific and medical disciplines and professions in the 19th century provides a focus for discussions of the systematic exclusion of women from the production of scientific knowledge at precisely the point that women's bodies become the object of intensive scientific study. Drawing on a range of material, the course considers the construction of homosexual and intersexual individuals in scientific discourse. In later weeks, it discusses so-called "postmodernist" critiques of science, and debates the possibilities for "feminist science."]

[S&TS 644(6441) Topics in the History of Women in Science (also FGSS 644[6440])

Spring. 4 credits. Next offered 2008–2009. M. Rossiter.]

S&TS 645(6451) The New Life Sciences: Emerging Technologies, Emerging Politics (also GOVT 634[6349])

Fall. 4 credits. S. Hilgartner.

The new life sciences (including genetics, genomics, and biotechnology) are highly controversial areas of emerging science and technology. They inspire both hope and anxiety, and are a source of ongoing conflicts. This course will examine the politics of the new biology, both to consider the issues in their own right and to examine the relationships among science, technology, and politics. In particular, the course will focus on three themes—the politics of property, the politics of identity, and the politics of risk—as they pertain to the emerging technologies of life. Topics may include the social shaping biological research; eugenics and genetics; genomic medicine; risk; commercial biotechnology; university-industry relationships; social movements; North-South issues; the Human Genome Project; genetics and race; intellectual property; the debate over human cloning; and the capacity of contemporary societies to manage emerging technologies.

[S&TS 675(6751) Science, Race, and Colonialism

Spring. 4 credits. Next offered 2008–2009. S. Seth.

Scholarly work in the last two decades has come increasingly to pay attention to the oft-neglected linkages between the sciences and the discourses and practices of colonialism. Texts of broad conception like Michael Adas's *Machines as the Measure of Men* and Gyan Prakash's recent *Another Reason* have made an attempt to provide an overview of many of the issues involved, but the field awaits a genuinely synthetic treatment. This course aims to provide the framework for such a treatment by looking at a number of key areas of current interest. Beginning with a survey of the history of ideas of race and the development of "race science," the course moves on to consider a series of specific topics, including the importance of social statistics and technologies of identification (fingerprinting), medicine, hygiene, technologies of overt control, scientific nationalism and nationalist science, the periphery as laboratory, gender, and savagery and criminality. Readings comprise a mixture of primary and secondary sources, and students are encouraged to contribute topics and texts of particular interest.]

S&TS 681(6811) Philosophy of Science (also PHIL 481[4810], S&TS 481[4811])

Fall. 4 credits. R. Boyd.
For description, see PHIL 681.

[S&TS 693(6931) Economics Meets Science Studies]

Fall. 4 credits. Next offered 2008-2009.
J. Reppy.

Covers a variety of possible interactions between the disciplines of economics and science and technology studies. Some economists are interested in science and technology as important components in economic growth, while scholars in science studies often appeal to economic motives and institutions to explain behavior in the production of scientific and technological knowledge. This course explores ways in which economics can provide new questions and theoretical approaches for science and technology studies. From another perspective, economics, as the most "scientific" of the social sciences, is itself a subject for study. Internal critiques by economists are compared to external analyses in the science studies literature. Readings include works on the epistemology and use of rhetoric in economics and on the "new economics of science," and examples of the use of economic analysis in the science studies literature.]

[S&TS 700(7001) Special Topic 1: Science Studies and the Politics of Science]

Fall. 4 credits. Prerequisites: S&TS 711 or permission of instructor. Next offered 2007-2008. M. Rossiter.

Theoretical developments in science and technology studies have called attention to the contingent and socially embedded character of both knowledge claims and technological systems. Drawing on literature from several disciplines, this seminar explores the consequences of these findings for social and political studies of science. Issues and problems considered include trust and skepticism, political and legal agency, reflexive institutions, relativism and social action, science and norms, and the co-production of knowledge and social order.]

[S&TS 700(7002) Special Topic 2: Technology Transfer Issues]

Fall. 4 credits. Next offered 2007-2008.
J. Reppy.

The goal of this course is to develop a coherent analytical framework for analyzing technology transfer, using insights from economics, sociology, history, and science and technology studies, and to employ that framework to evaluate current policy issues. Studies the process of technology transfer in different contexts, ranging from intra-firm and intra-industry to technology transfer between civil and military sectors, and between industrialized and less-industrialized countries. The readings include a mix of theoretical writings and case studies.]

S&TS 700(7003) Special Topic 3: Issues in the Social and Cultural History of Technology]

Spring. 4 credits. R. Kline.
This seminar focuses on different issues in the social and cultural history of technology each semester. Typical issues include Gender and Technology, Rethinking Technological Determinism, Was there an Information Revolution?, Consumerism, and the Military and Technology in the United States. Students read and discuss exemplary books and articles on a topic for the first half of the course, then give presentations on their research papers.

S&TS 711(7111) Introduction to Science and Technology Studies (also HIST 711[7110])

Fall. 4 credits. P. Dear.
Provides students with a foundation in the field of science and technology studies. Using classic works as well as contemporary exemplars, seminar participants chart the terrain of this new field. Topics for discussion include, but are not limited to: historiography of science and technology and their relation to social studies of science and technology; laboratory studies; intellectual property; science and the state; the role of instruments; fieldwork; politics and technical knowledge; philosophy of science; sociological studies of science and technology; and popularization.

[S&TS 720(7201) Emerging Technologies]

Spring. 4 credits. Prerequisite: graduate students in social sciences, sciences, and humanities. Next offered 2007-2008.
S. Hilgartner and B. Lewenstein.
Examines the peculiar speculative world of emerging technologies—a social and technical "space" found at the edges of expanding technological systems, where new technologies are being most actively constructed and transformed. In this dynamic world, emerging technologies exist in a state of flux as a mixture of blueprint and hardware, plan and practice, the nearly online and the almost obsolete, surrounded by speculation and speculators, who make often-contested claims about their promises, perils, and possibilities. Among the characteristics of this space are: the frequent appearance of unverifiable claims about technologies that have yet to materialize; an entrepreneurial drive for commercial implementation; ongoing institutional innovation; frequent public controversies; and problems of political legitimacy. The course examines the epistemic, discursive, institutional, and political dimensions of emerging technologies in an effort to understand the social worlds that shape technological change.]

[S&TS 721(7211) Archiving Contemporary Science]

Spring. 4 credits. Next offered 2008-2009.
B. Lewenstein.

Methodology course exploring the conceptual and practical issues associated with creating archives of science "as it happens." Readings focus on issues in historiography of contemporary science and on issues in contemporary archiving. Practical examples are drawn from several Cornell-based archives (on cold fusion, on the role of science in the O. J. Simpson trial, on the "Y2K bug," and on voting technologies in the 2000 presidential election).]

Independent Study

S&TS 699(6991) Graduate Independent Study

Fall or spring. 2-4 credits. Permission of department required.
Applications and information are available in 306 Rockefeller Hall.

SCIENCE OF EARTH SYSTEMS

See "Department of Earth and Atmospheric Sciences."

SERBO-CROATIAN

See "Department of Russian."

SINHALA (SINHALESE)

See "Department of Asian Studies."

SOCIETY FOR THE HUMANITIES

Brett de Bary, Director

Fellows for 2006-2007

Steffan Igor Ayora-Diaz (Universidad Autónoma de Yucatán)

Jefferson Cowie (Cornell University)

Belinda Edmondson (Rutgers University)

Sarah Evans (University of California, Berkeley)

Matthew Hart (University of Illinois, Urbana-Champaign)

Andrew Hoberek (University of Missouri-Columbia)

Petrus Liu (Cornell University)

Natalie Nelas (Cornell University)

Micol Seigel (California State University, Los Angeles)

Suman Seth (Cornell University)

Philip Stern (American University)

Gabriela Vargas-Cetina (Universidad Autónoma de Yucatán)

The Society annually awards fellowships for research in the humanities. The fellows offer, in line with their research, informal seminars intended to be exploratory or interdisciplinary. These seminars are open to graduate students, suitably qualified undergraduates, and interested auditors. Students who want credit for a seminar should formally register

in their own college. Persons other than those officially enrolled may attend as visitors with permission of the fellow. The theme for 2006–2007 is “Historicizing the Global Postmodern.”

S HUM 404 Science and Race: A History (also S&TS 474)

Fall. 4 credits. Limited to 15 students.
S. Seth.

This course examines the social construction and utilization of scientific conceptions of race in the West. We begin with the existence (or not) of conceptions of biological race in the early-modern period, focusing on early voyages of discovery and so-called “first encounters” between the peoples of the Old and New Worlds. In the second part of the course we will look at enunciations of racial thought in the late 18th century and at the problems of classification that these raised, before examining the roots of “Scientific Racism.” Part three looks at Darwin, Social Darwinism, and eugenics movements in different national contexts, concluding with a study of Nazi science and the subsequent trials of doctors at Nuremberg. The last part of the course examines recent and contemporary applications of racial thinking, including the debate over the origin of AIDS, race and IQ, and the question of whether doctors should make use of race as a category when researching and prescribing new treatments.

S HUM 408 Global Martial Arts Film & Lit (also ASIAN 452, COM L 408[4080])

Fall. 4 credits. Limited to 15 students.
P. Liu.

With recent blockbusters such as *Kill Bill*, *Kung Fu Hustle*, *Hero*, and *The Matrix*, a cultural practice from the East called “martial arts” has transformed itself from a spiritual and bodily discipline in medieval China into a popular visual spectacle housed in transnational cinema and arcade games. This course studies the Asianization of global postmodern culture by comparing the historical routes, institutional bases, and ideologies of different modes of representing martial arts in film and literature. Our questions will include: the historical origins of martial arts and martial arts cinema; kung fu as a racialized bodily performance; the cult of Bruce Lee; and the relation of martial arts to women, muscles, and the gendering of the body. Mandatory weekly film screenings will be scheduled.

S HUM 412 America in the 1970s (also AM ST 402, ILRCB 608)

Fall. 4 credits. Limited to 15 students.
J. Cowie.

This course will investigate the social, cultural, and political history of what is often thought of as the first postmodern decade: the long 1970s. We will attempt to trace the major issues of the era in order to explain the rise of postmodern cultural forms, the coming of postindustrial society, the triumph of neo-conservatism, and the consolidation of a neo-liberal model of political economy. As the prefixes “post” and “neo” suggest, the seventies rested upon a series of disassembled and rebuilt ideas that form the foundation of our own time.

S HUM 413 Noise, Music, Power (also ANTHR 414, MUSIC 413)

Fall. 4 credits. Limited to 15 students.
G. Vargas-Cetina.

This seminar will bring together different fields of discussion around the musical phenomenon. Post-structural philosophy, post-

colonial studies, anthropology, musicology and film will be juxtaposed in the discussion of the musical, from acoustic to electronic beats. We will examine the place of noise and music in society, and the power structures surrounding and inhabiting music and its enjoyment.

S HUM 415 Post-national Gastronitities (also LAT A 415)

Fall. 4 credits. Limited to 15 students.
S. Ayora-Diaz.

Explorations into the relationship between gastronomy and identity often assume a coextension between the territory of the Nation-State and its people's culinary tradition. This seminar interrogates the nature of this relationship. Participants will examine, through the discussion of how diverse national and regional cuisines are constituted, the general discursive and practical strategies deployed by the State to ensure governmentality whilst, on the other hand, citizens take advantage of the multicultural politics of identity to explode the monolithic nature of the Nation-State. The seminar will include a discussion of the writings of Foucault, Deleuze, Guattari, Derrida, Bhabha, Spivak and others as they bear on the understanding of the complexities of the postcolonial, postmodern, postnational global order and its implications for gastronomic trends.

S HUM 416 Modern Art and Popular Culture (also ART H 417[4917], VISST 417[4170])

Fall. 4 credits. Limited to 15 students.
S. Evans.

This course will examine a range of art-historical approaches to the relationship between modern art and popular culture from the 19th century to now. While we will read pertinent critiques—by Benjamin, Greenberg, and others—of mass culture, we will also investigate the elite-mass interface as the site at which the social dimension of art production and reception is made manifest. In pursuit of methods more sensitive to the common culture, we will revisit the “myth” of bohemia via the model of the artist subculture and investigate the social and sociable dimensions of avant-garde projects. We will study Manet, Toulouse-Lautrec, Picasso, Rodchenko, Johns, Fluxus, the Exploding Plastic Inevitable, Collaborative Projects, Sherman, Tiravanija, and Bradley.

S HUM 419 Transnational Method Then and Now (also AS&RC 419)

Fall. 4 credits. Limited to 15 students.
M. Seigel.

Full title: Transnational Method Then and Now: Historiography, Theory, and Practice. This course will explore contemporary transnational scholarship and some of its possible antecedents, both acknowledged and implicit. Its premise is that the popularity of transnational method encourages amnesiac engagements, often erasing the genealogy of less visible schools or sorts of transborder thinking. We will attempt to discern the contours of transnationalism avant la lettre thinkers pursuing a global vision from a variety of disciplines and political positions over the past three hundred years. The course focuses mostly in the Americas due to the instructor's focus, so such thinkers include Latin American anti-imperialists, Jesuits and Jansenists, early Afro-diasporic historians, Marxists, pan-Americanists, Boltonites, anti-colonial scholars active in the 1930s such as Fanon, C.L.R. James, Eric Williams, and W.E.B.

Du Bois, early Chicano Studies scholars such as Américo Paredes, world systems theorists, neoliberal practitioners of globalization studies, postwar third world women of color and their heirs in poststructuralist feminist theory such as Evelyn Brooks Higginbotham and Elsa Barkley Brown, and then recent scholarship claiming the transnational mantle, including work by Nestor Garcia-Canclini, Michael Denning, Brent Edwards, Martha Hodes, Neil Smith, and the instructor. With these current and prior transnational studies as guides, we will explore the parameters of transnational method and consider whether the various approaches grouped under its rubric—comparison, migration studies, Diaspora Studies, globalization theory, etc.—deserve or distort the legacy our historiography will uncover. Students will read course materials and participate in seminar discussions, offer in-class presentations, and write critical historiographic essays or multi-work book reviews. In addition, undergraduates will propose a substantive research project in any field of transnational study; graduate students will write a 15- to 20-page research paper on the transnational topic of their choice.

S HUM 420 Culture, Sovereignty, the State (also COM L 442)

Spring. 4 credits. Limited to 15 students.
M. Hart.

This course combines reading in political and cultural theory with works of literature and artistic practice, asking whether humanists have neglected the importance of the state as opposed to concepts like national culture. Theoretical readings will include works of Matthew Arnold, Hannah Arendt, Raymond Williams, Giorgio Agamben, and others. Seminars will also feature modernist poetry, contemporary British fiction, and architecture in Israel/Palestine and New York.

S HUM 421 Modernization and Fiction (also ENGL 408.01)

Spring. 4 credits. Limited to 15 students.
A. Hoberek.

In this course we will attempt to rethink 20th-century fiction outside the standard categories of modernism and postmodernism, concentrating instead on fiction's relationship to the processes of economic, technological, and organizational development known collectively as “modernization.” We will focus primarily on works by American authors, from Hamlin Garland and Willa Cather to Don DeLillo and Ruth Ozeki. Because modernization has been central to the United States' relationship to the rest of the globe in this period, however, we will also consider, for comparative and historical purposes, fiction from other nations, including examples from the Soviet realist tradition and from the so-called “developing world.”

S HUM 423 Caribbean Popular Literature (also ENGL 408.02, AS&RC 427)

Spring. 4 credits. Limited to 15 students.
B. Edmondson.

This course will explore, and historicize, popular, non-canonical Anglophone Caribbean Literature as a site of Caribbean middle class cultural production. By linking early (19th and early 20th century) popular texts to contemporary ones, the course goal is to interrogate critical tenets of Caribbean literary criticism by examining Caribbean society through its apparently non-serious, or “middlebrow,” literature.

S HUM 424 Time and the Other

Spring. 4 credits. Limited to 15 students.
N. Melas.

This course will address the relation between time and belonging in a wide-ranging selection of key texts, mainly in philosophy and literature with special attention to the intersection of experience and politics. Authors may include Heraclitus, St Augustine, Nietzsche, Marx, Freud, Levinas, Fabian, Conrad, Achebe, Glissant, Oulougouem, Bugul.

S HUM 425 Cold War Aesthetics in E. Asia (also ASIAN 465)

Spring. 4 credits. Limited to 15 students.
P. Liu.

This course is concerned with the Cold War in East Asia—the “partitioning” of China, Japan, and Korea into mutually hostile, geographically fractured and temporally de-synchronized “zones” in the post-WWII era—and how this historical experience produced a postmodern aesthetics in East Asia. We will be interested in recent research projects on Taiwan, Hong Kong, South Korea and Japan as “anomalous colonies” of the U.S., the “East Asian economic miracle” as an exception to capitalist development, and the limitations of the dialectic of foreign domination/nativist resistance for an understanding of postmodernity in East Asia.

S HUM 426 Science, Technology, Colonialism (also S&TS 476[4761])

Spring. 4 credits. Limited to 15 students.
S. Seth.

Scholarly work in the last two decades has come increasingly to pay attention to the oft-neglected linkages between technology and science on the one hand and the discourses and practices of colonialism and imperialism on the other. Texts of broad conception like Michael Adas' *Machines as the Measure of Men* and Gyan Prakash's recent *Another Reason* have made an attempt to provide an overview of many of the issues involved, but the field awaits a genuinely synthetic treatment. This advanced seminar will aim to provide the framework for such a treatment by looking at a number of key areas of current interest. The course is organized thematically and topics will include the importance to the colonial project of social statistics and technologies of identification (fingerprinting), medicine and hygiene, scientific nationalism and nationalist science, “guns, phones and steam,” the periphery as laboratory, and gender, savagery and criminality. We will also draw on some aspects of post-colonial literature, especially the writing of those involved in Subaltern Studies, to take up a question poorly explored in the field so far: the relationship between science and violence. Readings will be comprised of a mixture of primary and secondary sources, and students are encouraged to contribute topics and texts of particular interest.

S HUM 428 The State and Its Rivals, 1500-1800

Spring. 4 credits. Limited to 15 students.
P. Stern.

Full title: *Rethinking Leviathan: The State and Its Rivals in the Early Modern World*. This course examines the definitions, foundations, and development of modern state formation in early modern Europe and the wider world. Drawing upon contemporary writings as well as interdisciplinary scholarship in history, sociology, political science, historical geography, and literary studies, this course

historicizes and problematizes the centrality of the modern western European nation-state in our understanding of the formation of political communities. It investigates the contingencies and strategies that led to the rise of the state, as well as the myriad possible alternatives and rivals to it, including religious authorities, corporations, companies, mercenaries, composite states, pirates, thieves, and secret societies.

SOCIOLOGY

M. Macy, chair (322 Uris Hall, 255-3820), A. Basu, M. Berezin, S. Caldwell, S. Correll, D. Harris, D. Heckathorn, E. Hirsh, E. Lawler, P. McLaughlin, S. Morgan, V. Nee, T. Pinch, S. Soule, D. Strang, R. Swedberg, S. Tarrow, K. Weeden, E. Wethington, Emeritus: D. Hayes, B. C. Rosen, R. M. Williams, Jr.

Sociology is the study of human social organization, institutions, and groups. The Department of Sociology offers courses in a number of key areas, including comparative sociology, culture, economy and society, family and the life course, gender inequality, political behavior and public policy, organizations, race and ethnicity, social inequality, social psychology and group processes, social and political movements, and social networks. A particular emphasis of the department is the linkage of sociological theory to issues of public concern such as ethnic conflict, drugs, poverty, and gender and race segregation. Interests of faculty members range from the study of interaction in small groups to the study of economic and social change in a number of different countries. The department offers the opportunity for students to develop fundamental theoretical insights and understanding as well as advanced research skills in quantitative and qualitative methods. Graduates of the department take up careers in university, government, and business settings, and enter professions such as law, management, and urban policy.

Sociology Courses for Nonmajors

Sociology provides students with particularly effective ways to understand the complexities of modern life. For many students, the undergraduate years are a last opportunity to gain the insights these fields have to offer. The Department of Sociology is continuing to design an array of beginning and advanced courses that convey a broad understanding of the methods and insights of sociological analysis—courses that is of particular interest to undergraduates who may not major in sociology. First- and second-year students should note that the introductory courses (101, 103, 105, and 115) focus on the sociological analysis of major issues of public life, and that a wide selection of general education courses is available at the 200 level. Advanced undergraduates who are majors in other fields should also see, in particular, descriptions of the 300- and 400-level courses, for which there are no prerequisites other than junior or senior standing.

Related Courses in Other Departments

Students interested in sociology should consult the course lists of the other social science departments in the College of Arts and Sciences (including Anthropology, Economics, Government, and Psychology)

and of the following departments in other colleges: Organizational Behavior (School of Industrial and Labor Relations), Human Development (College of Human Ecology), and Development Sociology (College of Agriculture and Life Sciences).

The Sociology Major

The Department of Sociology is one of the social science departments at Cornell with the highest national ranking. Faculty members are internationally recognized for their scholarly work, and have received numerous awards, research fellowships, and research grants.

The 23 professors currently in the department are dedicated to scholarly inquiry that is both methodologically rigorous and theoretically innovative. The breadth of their substantive interests and the variety of their methodological styles are well demonstrated in the different fields that are represented within the department. These include comparative societal analysis, culture, deviance and social control, education, economic sociology, family, gender, inequality, social networks, organizations, political sociology, public policy, race and ethnic relations, religion, science and technology, social movements, and social psychology.

Career Opportunities for Graduates

An undergraduate degree in sociology is one of the most popular degrees with employers. After engineering and computer science, sociology is the most able to place graduates into jobs immediately after completing their bachelor's degree. This is not altogether surprising, since sociology can lead to a rewarding career in any of the following fields:

- **government:** urban/regional planning, affirmative action, foreign service, human rights management, personnel management
- **research:** social research, consumer research, data analysis, market research, survey research, census analysis, systems analysis
- **criminal justice:** corrections, criminology assistance, police work, rehabilitation counseling, criminal investigation, parole management
- **teaching:** public health education, school admissions, college placement
- **community affairs:** occupational counseling, career counseling, public health administration, hospital administration, public administration, social assistance advocacy, fund-raising, community organizing, social work
- **business:** advertising, sales, project management, sales representation, market analysis, real estate management, journalism, public relations, insurance, human resource management, production management, labor relations, quality control management

A large number of sociology majors also go onto graduate school and obtain advanced (i.e., master's and Ph.D.) degrees in such varied fields as sociology, political science, philosophy, economics, and psychology. Many also complete professional degrees in education, law, medicine, social work, and business administration.

Requirements for the Major

In addition to the academic requirements established by the College of Arts and Sciences, students must also fulfill requirements toward a specified major. Ten courses are required in the sociology major. All courses toward the major must be taken for a letter grade, and students must maintain at least a 2.0 grade point average (GPA) while enrolled in the major. The 10 courses required for the major are divided into the following categories:

- SOC 101
- SOC 375
- two research methods courses (SOC 301 and 303)
- one advanced-level sociology course (400-level or higher)
- five additional (i.e., elective) courses in sociology

Declaring the Sociology Major

Students in the College of Arts and Sciences who wish to declare a major in sociology should do so as soon as possible. Students who are *not* currently in the College of Arts and Sciences need to be admitted to A&S *before* declaring the major. To declare the sociology major, students need to take the following steps:

- Obtain a **campus copy** of their transcript from Day Hall and bring it to the department office (316 Uris Hall).
- Obtain a sociology major packet from Susan Meyer, undergraduate assistant, during her office hours (316 Uris Hall). During the meeting, the student fills out a major declaration form.
- Leave this form and the transcript with the undergraduate assistant. The declaration will be reviewed by the director of undergraduate studies and sent on to the College of Arts and Sciences for official notification that the student has declared a major. Please allow two weeks for the declaration to be approved and entered into the campus computer.

A student file will be set up to maintain the student's records in the department. Once the students are officially recognized as a major in sociology, the Sociology Department will receive a copy of the transcript at the end of each semester, which will be kept in the student's file at 316 Uris Hall. Records are maintained until five years after graduation.

Academic Advising in Sociology

Cornell students are ultimately responsible for the policies, procedures, and requirements regarding their degree as stated in the current *Courses of Study*. After reading this document, students may find that they are still confused or unclear about some of the requirements, and may have questions and concerns that pertain to their individual situation. Several sources of academic assistance and advice are available.

College Advisor: Because sociology majors are students in the College of Arts and Sciences, college advisors are available by appointment in the Office of Undergraduate Admissions and Academic Advising (Goldwin Smith Hall). It is recommended that students consult with a college advisor sometime before their last semester to discuss the completion of college

requirements, graduation, and residency requirements.

Undergraduate Program Coordinator: The undergraduate assistant (Susan Meyer) in the Department of Sociology is located in 316 Uris Hall. She is available to provide assistance with the following:

- the process of declaring the sociology major.
- information about transferring courses from other universities and/or other departments.
- other administrative matters or concerns (e.g., forms, adding and dropping courses).

Director of Undergraduate Studies: The director of undergraduate studies will:

- provide information about departmental curricula and the requirements for the major.
- meet with applicants to the major.
- review applications for sociology majors and accept students into the program.
- assist students in finding an advisor in the sociology department.
- screen sociology classes taken outside Cornell for acceptance as Cornell credit.
- serve as the backup for faculty advisors who are absent during advising periods.

Faculty Advising: Once a student is a declared sociology major, he or she is assigned a faculty advisor within the Sociology Department. The student is asked to name his or her preference for an advisor; however, if he or she is not sufficiently familiar with the program, the director of undergraduate studies can assist in selecting a faculty member. Faculty advisors are there to:

- discuss education, career goals, and graduate school opportunities.
- meet to talk about courses and plan your program of study within the department.
- go over the student's academic program each semester.

Sociology Peer Advisors: Approximately 10 advanced sociology majors serve as peer advisors in the department. These advisors change from year to year, but a complete list of their names and e-mail addresses is available from the undergraduate assistant in the sociology office (316 Uris Hall). Peer advisors do not provide academic counseling; they are there to help students adjust to life in the major, as well as to let them know about the department's many support services and activities.

Research Opportunities

Qualified sociology majors are invited to participate with faculty members in conducting research. Such projects are usually initiated in one of two ways: the student may offer to assist the faculty member in an ongoing project, or the student may request that the faculty member supervise the execution of a project conceived by the student. In either case, the student should enroll in SOC 491 Independent Study. Interested students may direct inquiries to any faculty member.

The Sociology Honors Program

Honors in sociology are awarded for excellence in the major, which includes overall GPA and completion of an honors thesis. In addition to the regular requirements of the major, candidates for honors must maintain a cumulative GPA of at least a A- in all sociology classes, complete SOC 495 and 496 (in the senior year), and write an honors thesis.

Students are awarded either honors (*cum laude*), high honors (*magna cum laude*), or highest honors (*summa cum laude*) in the program based on the honors advisors' evaluation of the level and the quality of the work completed towards the honors thesis and the quality of the course work. The honors distinction will be noted on the student's official transcript and it will also be indicated on the student's diploma.

Admission to the Honors Program

To qualify for entrance into the honors program, students must have at least a B+ GPA overall and an A- GPA in the major. In addition, they must secure the permission of a faculty member in the Department of Sociology who will guide their honors thesis.

Students who wish to be considered for honors should apply to the director of undergraduate studies no later than the second semester of their junior year. Honors program application forms are available in 316 Uris Hall. The application must include a copy of the student's undergraduate transcript, a brief description of the proposed research project (due May 15), and the endorsement of a faculty member in the Sociology Department who will supervise the honors work (due September 15).

The Honors Thesis

During the senior year, each candidate for honors in sociology enrolls in a yearlong tutorial (SOC 495 and 496) with the faculty member who has agreed to serve as the student's thesis advisor. During the first semester of their senior year, students determine the focus of their honors thesis, and submit a 10- to 15-page overview (or, alternatively, a preliminary draft) of the thesis to their advisor. During the second semester, they complete their honors thesis and submit final copies to the department.

The text of the honors thesis may not exceed 60 pages except by permission of the honors advisor. Two copies of the honors thesis are due to the undergraduate assistant (316 Uris Hall) during the third or fourth week of April. Honors thesis preparation guidelines are available from the undergraduate assistant (316 Uris Hall).

Any honors candidate whose research directly involves working with human subjects must receive approval for the project from the Cornell University Committee on Human Subjects.

Introductory Courses

SOC 101(1101) Introduction to Sociology (SBA)

Fall, spring, 3 credits. Staff.
Introduces students to the distinctive features of the sociological perspective, as opposed to psychological, historical, or economic approaches. First discusses the sociological perspective in the context of small groups

and face-to-face interaction. As the course unfolds, the same perspective is applied to progressively larger social groupings, such as peer groups and families, formal organizations, social classes, racial and ethnic groups, and nation states. This approach also provides new insights into such topics as deviance, gender inequality, culture, and lifestyles. Whenever possible, class lectures and discussions illustrate these themes by exploring contemporary social problems and developments, including the rise of Generation X (and Generation Y?), the sources of current racial tensions, and the gender gap in the workplace.

SOC 105(1105) Introduction to Economic Sociology (SBA)

Fall. 3 credits. Staff.

Modern social thought arose out of attempts to explain the relationship between economic development and the social transformations that gave rise to the contemporary world. Classical theorists from Karl Marx and Max Weber to Karl Polanyi focused their writings on emergent capitalist economies and societies. Contemporary social theorists likewise have sought to understand the interaction between capitalism and the social forces reacting against and emerging from modern economic development. From exchange and rational choice theories to network analysis and institutional theory, a central theme in contemporary social thought has been the relationship between the economy and society, economic action and social structure, and rationality and fundamental social processes. This course provides an introduction to social thought and research seeking to understand and explain the relationship between economy and society in the modern era.

[SOC 115(1150) Utopia in Theory and Practice (SBA)]

Spring. 3 credits. Next offered 2008-2009. D. Strang.

People have always sought to imagine and realize a better society, with both inspiring and disastrous results. This course discusses the literary utopias of Moore, Morris, and Bellamy, and the dystopias of Huxley, Orwell, and Zamyatin. Also examines real social experiments, including 19th-century intentional communities, 20th-century socialisms and religious cults, and modern ecological, political, and millennial movements. Throughout, the emphasis is on two sociological questions: What kinds of social relationships appear as ideal? How can we tell societies that might work from those that cannot?

General Education Courses

SOC 202(2202) Population Dynamics (also D SOC 201[2010]) (CA)

Spring. 3 credits. L. Williams.

For description, see D SOC 201.

[SOC 203(2203) Work and Family in Comparative Perspective (SBA)]

Fall. 4 credits. Next offered 2008-2009. Staff.

Family life is often portrayed in the popular media as a haven away from the harsh realities of public life, suggesting that work and family constitute separate and distinct spheres. By contrast, many sociologists point out the links between work and family, and how these links have different consequences for men and women. This course highlights the responses of individuals, employers, and

governments, both in the United States and internationally, to the dilemmas posed by the interface between work and family.]

SOC 206(2206) International Development (also D SOC 205[2050]) (HA)

Spring. 3 credits. Staff.

For description, see D SOC 205.

SOC 207(2070) Problems in Contemporary Society (SBA)

Spring. 4 credits. Staff.

Examines contemporary social problems, with a focus on their sources in the organization of society. Modern societies are based on three fundamental types of institutions—social norms, hierarchies, and markets. Each is subject to distinctive types of failures resulting in problems that include poverty, prejudice and discrimination, intolerance and hate, alcohol and drug abuse, physical and mental illness, crime and delinquency, and urban problems. In analyzing these problems the course emphasizes the institutions through which they are created and perpetuated and the form of institutional change required to address them.

[SOC 208(2208) Social Inequality (also D SOC 209[2090]) (SBA)]

Spring. 4 credits. Next offered 2007-2008. Staff.

Reviews contemporary approaches to understanding social inequality and the processes by which it comes to be seen as legitimate, natural, or desirable. We address questions of the following kind: What are the major forms of stratification in human history? Are inequality and poverty inevitable? How many social classes are there in advanced industrial societies? Is there a "ruling class?" Are lifestyles, attitudes, and personalities shaped fundamentally by class membership? Can individuals born into poverty readily escape their class origins and move upward in the class structure? Are social contacts and "luck" important forces in matching individuals to jobs and class positions? What types of social processes serve to maintain and alter racial, ethnic, and gender discrimination in labor markets? Is there an "underclass?" These and other questions are addressed in light of classical and contemporary theory and research.]

SOC 209(2090) Networks (also ECON 204) (SBA)

Spring. 4 credits. D. Easley and J. Kleinberg.

For description, see ECON 204.

SOC 210(2100) What Is Science? (also S&TS 201[2011]) (CA)

Spring. 3 credits. T. Pinch.

For description, see S&TS 201.

SOC 215(2150) Organizations: An Introduction (SBA)

Fall. 4 credits. Staff.

This course examines the fundamental and pervasive role that organizations play in modern society. From universities, hospitals, banks, factories, prisons and churches to museums, art galleries and NGOs, contemporary society is inconceivable without organizations. Whether one struggles for change, seeks to protect the status quo, or simply wants to get things done in the modern world, it is crucially important to understand how organizations work. This course will explore such issues as the historical origins of complex organizations,

the internal structure and dynamics of organizations, organizations interactions with their external environments, and how organizations change over time.

[SOC 221(2210) Race, Class, and Gender Research in Practice (SBA)]

Spring. 4 credits. Sophomore seminar. Next offered 2007-2008. K. Weeden.

What are the promises and limitations of social science as a tool for understanding the sources and consequences of social inequality? This course introduces the underlying logic of social scientific research in the context of contemporary debates about social inequality: e.g., educational testing and tracking, race-based affirmative action, and the roles of intelligence and parental resources in affecting who gets ahead. Its goals are to encourage students to be critical consumers of social scientific data, evidence, and discourse and to develop their own rigorous, informed explanations of social phenomena.

This is a special seminar sponsored by the John S. Knight Institutes Sophomore Seminars Program Seminars Program Seminars offer discipline-specific study within and an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the disciplines outlook, discourse community, modes of knowledge, and ways of articulating the knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.]

[SOC 222(2220) Controversies about Inequality (also PAM/ILROB/D SOC 222[2220]) (SBA)]

Spring. 3 credits. Next offered 2007-2008. S. Morgan.

Introduces students to contemporary debates and controversies about the underlying structure of inequality, the processes by which it is generated and maintained, the mechanisms through which it comes to be viewed as legitimate, natural, or inevitable, and the forces making for change and stability in inequality regimes. These topics are addressed through readings, class discussion, visiting lectures from distinguished scholars of inequality, and debates staged between students who take opposing positions on pressing inequality-relevant issues (e.g., welfare reform, school vouchers, immigration policy, affirmative action.)

SOC 231(2310) Latino Communities (also D SOC 230) (SBA)

Spring. 3 credits. R. Mize.

For description, see D SOC 230.

[SOC 248(2480) Politics and Culture (also GOVT 363[3633]) (HA)]

Spring. 4 credits. Next offered 2007-2008. M. Berezin.

Focuses on currently salient themes of nationalism, multiculturalism, and democracy. It explores such questions as who is a citizen; what is a nation; what is a political institution; and how do bonds of solidarity form in modern civil society. Readings are drawn principally from sociology and where applicable from political science and history. Journalist accounts, films, and web site research supplement readings.]

SOC 265(2650) Latinos in the United States (also LSP 201[2010], D SOC 265[2650]) (SBA)

Spring. 3 credits; 4-credit option available. H. Velez.

Exploration and analysis of the Hispanic experience in the United States. Examines the sociohistorical background and economic, psychological, and political factors that converge to shape a Latino group identity in the United States. Perspectives are suggested and developed for understanding Hispanic migrations, the plight of Latinos in urban and rural areas, and the unique problems faced by the diverse Latino groups. Groups studied include Mexican Americans, Dominicans, Cubans, and Puerto Ricans.

SOC 270(2700) Gender: Meanings and Practice (also FGSS 270(2700)) (SBA)

Spring. 3 credits. S. Correll.

People have many ideas about gender—about women, men, femininity, and masculinity. These ideas organize our social lives in important ways and often in ways that we do not even notice. They are often so taken for granted that we simply assume they are part of the “normal” or natural way that life works. As part of its focus, sociology investigates and exposes aspects of social life that are usually taken for granted. This course critically examines the ways that gender structures the social world in which we live. After laying the theoretical groundwork, the course examines cultural conceptions about gender, paying special attention to how beliefs about masculinity and femininity create and enforce a system of gender difference and inequality. Next it attempts to reveal the “common sense” world of gender that surrounds us by exposing the workings of institutions, such as the family, the classroom, and the workplace. Next, it explores how gender stereotypes and the interactions between and among women and men create and recreate gender. Then it briefly examines the link between gender, friendship, and sex/sexuality. Concludes by considering the possibilities of a “degendered” or less-gendered society.

SOC 280(2800) Social Movements (SBA)

Spring. 3 credits. S. Soule.

This course presents a sociological examination of the emergence and development of social movements and collective action at both the societal and individual levels. Students will learn about the major theoretical perspectives on social movements, as well as several recent and classical empirical works in the area. Students will learn about a variety of different social movements (both contemporary and historic).

Methods and Statistics Courses

SOC 301(3010) Evaluating Statistical Evidence (MQR)

Fall. 4 credits. Prerequisite: Arts and Sciences students only. Staff.

First course in statistical evidence in the social sciences, with emphasis on statistical inference and multiple regression models. Theory is supplemented with numerous applications.

SOC 303(3030) Design and Measurement (SBA)

Spring. 4 credits. D. Harris.

Research methods are the foundation upon which all research rests. When there are flaws in the methodology, the whole project usually crumbles. This course uses methods texts, and examples from real research projects, to investigate the research methods and logic employed by sociologists. Topics explored include surveys, experimentation, sampling,

observation, causal inference, and ethics. By the end of the course, students are able to identify methodological weaknesses in others' research, and design projects that can withstand a critical eye.

SOC 304(3040) Social Networks and Social Processes (SBA)

Fall. 4 credits. D. Strang.

How do groups self-segregate? What leads fashions to rise and fall? How do rumors spread? How do communities form and police themselves on the Internet? This course examines these kinds of issues through the study of fundamental social processes such as exchange, diffusion, and group formation. Focuses on models that can be explored through computer simulation and improved through observation.

SOC 307(3070) Society and Party Politics (also GOVT 306) (SBA)

Spring. 4 credits. S. Van Morgan.

This course will focus on the role that society plays in the emergence and functioning of political parties. In addition to investigating different types of party systems, the societal roots of political parties, and the influence of institutions on electoral politics, the course will also examine contemporary debates, such as the relationship between culture and electoral behavior. Case studies will be drawn from a number of Western and non-Western democracies.

Intermediate Courses

SOC 311(3110) Group Solidarity (SBA)

Fall. 4 credits. M. Macy.

What is the most important group that you belong to? What makes it important? What holds the group together, and how might it fall apart? How does the group recruit new members? Select leaders? Make and enforce rules? Do some members end up doing most of the work while others get a free ride? This course explores these questions from an interdisciplinary perspective, drawing on sociobiology, economics, and social psychology, as it applies alternative theories of group solidarity to a series of case studies, such as urban gangs, spiritual communes, the civil rights movement, pro-life activists, athletic teams, work groups, and college fraternities.]

[SOC 321(3210) Environmental Sociology (SBA)]

Spring. 3 credits. Next offered 2007–2008. Staff.

This course will provide an overview of the field of environmental sociology. The course will begin by examining the history of various Western ideas—e.g., essentialism, the idea of progress, the Great Chain of Being and Darwinian evolution—that have shaped our understanding of human-environment interactions. We will then consider the origins of the field of environmental sociology and conduct a brief overview of the various theoretical perspectives in the field. The core course will be devoted to using these perspectives to illuminate various historical and current environmental problems such as overpopulation, the energy crisis, toxic wastes, the ecological impacts of the green and biotechnological revolutions, rainforest destruction in the Amazon and vulnerability to climate change. In the final section of the course we will examine the origins, growth and diversification of the U.S. environmental movement.]

SOC 324(3240) Environment and Society (also S&TS 324(3241), D SOC 324(3240)) (SBA)

Fall or spring. 3 credits. Staff.
For description, see D SOC 324.

SOC 327(3270) Toleration and Fundamentalism (SBA)

Spring. Sophomore seminar. M. Berezin.

SOC 327(3270) SSP: Toleration and Fundamentalism (SBA)

Spring. M. Berezin.

The purpose of this course is to help students to think historically and sociologically about the resurgence of religion as a political issue. In order to cover a wide range of time periods and cultures, this seminar views religion through an institutional framework concentrating particularly on the separation of Church and State which has been the hallmark of modern Western political organization. The seminar asks students first, to think about how the boundary between church and state, sacred and secular was negotiated in various nation-states; and second, how that divide encourages toleration and discourages fundamentalisms of various stripes. The institutional focus will lead us to consider the legal frames, i.e., the laws that govern the boundaries between religion and the polity.

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SOC 330(3300) Sociology of Sport (also NES/JWST 389) @ (SBA)

Spring. 4 credits. T. Sorek.
For description, see NES 389.

SOC 334(3340) Chinese Society in Transition (SBA)

Fall. 2 credits. V. Nee and L. Rong.
Modern Chinese society is undergoing transformative change to a market society. To understand the trajectory of societal change, this course examines the causes and consequences of China's market transition. Why did China's political elite launch the economic reform and why does market transition theory predict the erosion of power of the communist political elite and the emergence of a new elite drawing on power and gains made in markets? The course focuses on studying the dynamics of China's transition to market society, in which entrepreneurs and professionals comprise the new elite and a growing urban middle class oriented to global cultural beliefs and economic forces increasingly shape popular culture and tastes. In turn, we examine the development of rational-legal institutions and law, the nature of Chinese entrepreneurial spirit, the “floating population” of rural migrants seeking jobs in cities, a deepening environmental crisis, expanding social inequalities, rise of popular unrest and local rebellion, and the dilemma faced by the communist elite in charting a course between reform and stability. Both political and economic agents are active in motivating,

facilitating and guiding far-reaching societal change, especially evident in economic and legal reforms. The course will seek to understand the complex relationships between political and economic actors in a transition society adapting to globalization by means of rapid economic growth and yet bound by the constraints of a communist political order.

SOC 336(3360) Evolving Families: Challenges to Family Policy (also PAM 336) (SBA)

Fall. 3 credits. S. Sassler.
For description, see PAM 336.

SOC 337(3370) Racial and Ethnic Differentiation (also PAM 337) (SBA)

Spring. 3 credits. S. Sassler.
For description, see PAM 337.

SOC 341(3410) Modern European Society and Politics (also GOVT 341[3413]) (SBA)

Spring. 4 credits. S. Van Morgan.
For description, see GOVT 341.

SOC 357(3570) Schooling, Racial Inequality, and Public Policy in America (SBA)

Spring. 4 credits. Sophomore seminar. S. Morgan.
After examining alternative explanations for why individuals obtain different amounts and types of educational training, the course focuses on how an individual's family background and race affect his or her trajectory through the educational system. The course covers the specific challenges that have confronted urban schooling in America since the 1960s, including the classic literature on the effects of school and community resources on student achievement and as well as the development and later evaluation of school desegregation policies. Also considers case studies of current policy debates in the United States, such as housing segregation and school resegregation, voucher programs for school choice, and the motivation for and consequences of the establishment of state-mandated testing requirements. Throughout the course, emphasis is placed upon the alternative modes of inquiry and writing which opposing scholars, policymakers, and journalists use to address these contentious topics.

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SOC 362(3620) Inequality and the Workplace (SBA)

Fall. 4 credits. E. Hirsh.
The work people do is important for all aspects of their lives, including their earnings, social status, where they live, and opportunities for their children. This course examines the sources, extent, and consequences of workplace inequality across gender, racial, and ethnic lines. While traditional explanations of workplace inequality focus on how differences in workers' skills and qualifications lead to disparities in income, status, and other work-related rewards, this course emphasizes

how characteristics of the workplace—such as hiring practices, pay scales, workforce diversity, and legal context—produce variation in gender, race, and ethnic inequality. The course concludes with a discussion of how public policy can intervene in the perpetuation of workplace inequality.

SOC 371(3710) Comparative Social Stratification (also D SOC 370[3700]) (SBA)

Fall or spring. 3 credits. T. Lyson.
For description, see D SOC 370.

SOC 375(3750) Classical Theory # (SBA)

Spring. 3 credits. R. Swedberg.
Introduction to the classics in sociology, primarily works by Karl Marx, Max Weber, Emile Durkheim, and Georg Simmel. Students also study the works of Alexis de Tocqueville, Montesquieu, and Joseph Schumpeter. Special emphasis is put on the concepts, ideas, and modes of explanation that characterize the classics. Students also look at these writers' empirical material, and what may be termed the social construction of the classics. Course requirements include active class participation and three tests in class.

SOC 395(3950) Advanced Economic Sociology (SBA)

Fall. 4 credits. Next offered 2007-2008. R. Swedberg.
Aims at reinforcing and adding to the insights presented in SOC 105 Introduction to Economic Sociology (taught by Professor Victor Nee in the fall). Begins with the theoretical foundation of economic sociology (classical and modern). The contributions by Max Weber, Joseph Schumpeter, Mark Granovetter, and others are presented. This segment is followed by lectures on different types of economic organization, from capitalism and the global economy to the firm and entrepreneurship. Topics such as politics and the economy, law and the economy, culture and the economy, and gender and the economy are then discussed. Normative aspects of economic sociology are also on the agenda.

Advanced Courses

The following courses are intended for advanced undergraduates with substantial preparation, as well as for graduate students in sociology and related disciplines. The normal prerequisite for all 400-level courses is one introductory course plus 301 (or an equivalent statistics course). Students who are not sure whether their background is sufficient for a particular course should consult the professor.

SOC 408(4080) Qualitative Methods (also SOC 508)

Spring. 4 credits. M. Berezin.
This course aims to acquaint students with the practice of non-quantitative research methods. It does not offer a laundry list of techniques, rather it asks students to think about how particular methods are more or less suited to the answering of particular types of research questions. The course is divided into four parts: (1) a general discussion of theory, methods and evidence in social science; (2) a series of readings and exercises on particular methods; (3) an analysis of full-length works to see how they were put together; (4) discussion of student projects.

SOC 410(4100) Health and Survival Inequalities (also FGSS 410[4100]) (SBA)

Fall. 4 credits. A. Basu.
Reviews the ways of measuring such inequalities (life expectancy, age-specific death rates, cause specific mortality and morbidity, disability and so on) and some of the historical and contemporary socioeconomic markers of such inequalities, including region, class, race, gender and age. Then examines some of the determinants of these differences, paying particular attention to notions of biology, poverty, and politics. Also considers the role of medical advances in promoting or reducing health inequalities. Besides looking at macro-level determinants, the course covers some of the growing literature on individual and family behaviors that impinge on inequality in health and survival—both unintentional (e.g., through differences in lifestyle) as well as deliberate (e.g., through active discrimination against certain categories of individuals, girls in parts of Asia). Policy prescriptions arising from these studies are evaluated for feasibility and effectiveness and new innovative approaches proposed.

SOC 421(4210) Theories of Reproduction (also FGSS/D SOC 421[4210]) (SBA)

Spring. 4 credits. A. Basu.
Examines the changing nature of the debate on what makes populations grow and what makes families have any, few, and many children. The course begins with theories of historical population growth and changing fertility and then moves on to consider the economic, social, cultural, political, and biological theories applied to fertility and changing fertility in contemporary populations. Demographic concepts and factors believed to account for the high fertility of many developing country populations and the extremely low fertility in many parts of the developed world are examined. Emphasis is given to "sociocultural" and "gender-based" explanations of reproductive behavior, which activist groups and organizations have used to push political and social agendas. The course pays particular attention to the role of the state in population growth and its place in women's lives.

[SOC 430(4300) Cultural Sociology (also SOC 630) (SBA)]

Fall. 4 credits. Next offered 2008-2009. M. Berezin.
Cultural sociology is a flourishing subfield within sociology that incorporates a wide range of substantive areas (art, inequality, family, politics) and uses a wide range of methods from the ethnographic to the textual. This course proposes to explore some of the leading works and ideas in that field and to analyze how culture operates in social life. It begins by analyzing the different meanings that sociologists have ascribed to culture. Students begin by reading classics like Durkheim's *Elementary Forms of Religious Life* move on to contemporary theorists such as Geertz, Bourdieu, Alexander and Swidler. They then read a series of empirically grounded case studies that make culture the basis of the analysis (i.e., Lamont, *Money, Manners and Morals*). They analyze certain cultural objects such as films, art, etc., to put into practice some of the ideas from the readings.]

SOC 453(4530) Knowledge and Society (also S&TS 453) (SBA)

Fall. 4 credits. C. Leuenberger.
For description, see S&TS 453.

SOC 491(4910) Independent Study

Fall or spring. 1–4 credits. For undergraduates who wish to obtain research experience or do extensive reading on a special topic. Prerequisite: acceptable prospectus and agreement of a faculty member to serve as supervisor for project throughout semester. Graduate students should enroll in 891–892.

[SOC 492(4920) Economic Sociology of Entrepreneurship (SBA)]

Fall. 4 credits. Next offered 2007–2008. V. Nee.

This course introduces the classical and contemporary writings on the rise of entrepreneurial capitalism in the West and the global diffusion of the modern entrepreneurship in its rational orientation to profit-making and innovative drive to apply new technologies and ideas to production. Contemporary approaches shift the emphasis away from the analysis of individual attributes and agency to focus on examining the role of social networks, organizational forms and institutional environment in facilitating the entrepreneurs and the firm. In the second part of the course, we will examine case studies of entrepreneurs, drawing selectively from novels, movies and autobiographies.]

SOC 495(4950) Honors Research

Fall or spring. 4 credits. Prerequisite: sociology seniors; permission of instructor.

SOC 496(4960) Honors Thesis: Senior Year

Fall or spring. 4 credits. Prerequisite: SOC 495.

Graduate Core Courses

These courses are primarily for graduate students in sociology but may be taken by other graduate students with permission of the instructor.

SOC 501(5010) Basic Problems in Sociology I

Fall. 4 credits. V. Nee.

Analysis of theory shaping current sociological research. Examination of several central problems in sociological inquiry provides an occasion for understanding tensions and continuities between classical and contemporary approaches, for indicating the prospects for unifying microsociological and macrosociological orientations, and for developing a critical appreciation of efforts to integrate theory and research.

[SOC 502(5020) Basic Problems in Sociology II]

Spring. 4 credits. Next offered 2007–2008. D. Heckathorn.

Continuation of SOC 501. Emphasis is on the logical analysis of theoretical perspectives, theories, and theoretical research programs shaping current sociological research. The course includes an introduction to basic concepts used in the logical analysis of theories and examines their application to specific theories and theoretical research programs. Theoretical perspectives include functionalism, social exchange, and interactionism.]

SOC 506(5060) Research Methods II

Spring. 4 credits. E. Hirsh.

Course on advanced linear regression analysis in theory and practice. After a review of classical bivariate regression and elementary

matrix algebra, the course progresses under the credible assumption that the most important fundamentals of data analysis techniques can be taught in the context of simple multivariate linear models. Accordingly, the course provides a relatively formal treatment of the identification and estimation of single equation OLS and GLS regression models, instrumental variable models, traditional path models, and multiple indicator models. Interspersed with this material, the course addresses complications of regression modeling for the practicing researcher including: missing data problems, measurement error, regression diagnostics, weighting, and inference for surveys. The course concludes with a brief introduction to nonlinear regression, counterfactual models of causality, Bayesian inference, and hierarchical models.

Graduate Seminars

These seminars are primarily for graduate students but may be taken by qualified advanced undergraduates who have permission of the instructor. The seminars offered in each semester are determined in part by the interests of students, but it is unlikely that any seminar will be offered more frequently than every other year. The list below indicates seminars that are likely to be offered, but others may be added and some may be deleted. Students should check with the department before each semester.

SOC 510(5100) Seminar on Comparative Societal Analysis

Spring 3 credits. Prerequisite: advanced graduate students throughout social sciences; permission of instructor. M. Berezin.

Intended for advanced graduate students interested in comparative methods and research in the social sciences. It is offered in conjunction with the Comparative Societal Analysis program in the Einaudi Center for International Studies. Students enrolled for credit write critiques of papers presented at the seminar by faculty members and other graduate students, and work on their own project. Some weeks are devoted to collective reading and analysis of background work. Students may enroll for more than one semester.

[SOC 519(5190) Workshop on Social Inequality]

Spring. 4 credits. Prerequisite: SOC 518; sociology Ph.D. students, or permission of instructor. Next offered 2007–2008. K. Weeden.

Provides a forum in which students and others can present, discuss, and receive instant feedback on their inequality-related research. Its primary goal is to help students advance their own research; its secondary goal is to introduce selected debates in the contemporary inequality literature in a more comprehensive fashion than is possible in the introductory graduate-level seminar on inequality.]

SOC 526(5260) Social Policy

Fall. 4 credits. S. Caldwell.

The dramatic growth of the policy research sector as an institutional and intellectual force signals the changing relationship of social science to social policy in the United States. With an eye on that relationship, this course examines the development of social policy in selected areas, among them welfare, poverty, housing, crime, and health. The policy

research sector itself—people, values, and institutions—is also surveyed.

[SOC 528(5280) Conflict and the Nation-State]

Fall. 4 credits. Next offered 2007–2008. D. Strang.

The nation-state developed out of conflict, through military competition within Europe and the rise of and response to colonial empires in the Americas, Asia, and Africa. Conflict is just as virulent today, as ethnic cleansing and movement toward American imperialism attest. This course examines these conflicts both in comparative historical terms and in terms of fundamental social processes, with an eye to what they tell us about contemporary issues. Questions include: when and why do groups seek to leave polities, through secession or decolonization? When and why do states become imperial powers? How are intra-state and inter-state conflict conditioned by the changing content of nationality and citizenship, global institutions, and inequalities of wealth and power.]

SOC 540(5400) Organizational Research

Fall. 4 credits. D. Strang.

Seminar focusing on contemporary sociological research on organizations. It centers theoretically on the interplay of institutional, ecological, and choice-theoretic accounts of organizational structure and action. Subjects include organizational founding and mortality; change in organizational practices over time; the relationship between organizations and their legal, social, and cultural environment; and stratification and mobility within organizations.

SOC 580(5800) Identity and Interest in Collective Action

Spring. 4 credits. Offered every other year. M. Macy.

This research seminar examines the problem of collective action from alternative theoretical perspectives: one centered on shared interests, the other on common identities. The former claims that groups are held together because the members are interdependent and thus benefit from mutual trust and cooperation in a common endeavor. Identity theorists contend that trust and cooperation may also depend on affective and normative ties among participants who share a salient demarcation (including a "shared fate"). We will explore this debate, and its possible resolution, through an examination of formal theoretical studies (including game theoretic, evolutionary, and agent-based models) as well as empirical research using experimentation and comparative case analysis. We will also examine research on informal social control (including reciprocity and reputation systems), social networks, and mobilizing strategies as mechanisms for reconciling the tension between individual self interest and collective obligations. The primary goal is to identify, formulate, and launch promising research projects, and to that end, seminar members will be expected to critically engage the literature each week and to write a final paper that advances original research (as a detailed prospectus or, where practical, as a publishable article).

SOC 591(5910) Special Seminars in Sociology

Fall and spring. 2–4 credits. Staff.

These graduate seminars are offered irregularly. Topics, credit, and instructors vary

from semester to semester. Students should look at the Sociology Department bulletin board at the beginning of each semester for current offerings.

SOC 605(6050) Political Sociology

Fall. 3 credits. S. Soule.

This seminar presents the basic approaches to political sociology, with emphasis on the political process in the United States (including the study of both conventional and unconventional politics). Students will learn about explanations for individual participation in both conventional and unconventional politics. Major theoretical and empirical works in this area will be studied.

SOC 606-607(6060-6070) Sociology Colloquium

Fall and spring. 0 credits. Requirement for sociology graduate students. Staff.

A series of talks representative of current research interests in sociology, given by distinguished visitors and faculty members.

SOC 608(6080) Proseminar in Sociology

Fall. 1 credit. Prerequisite: first-semester sociology graduate students. Staff.

Discussion of the current state of sociology and of the research interests of members of the graduate field; taught by all members of the field.

SOC 609(6090) Special Topics in Methodology

Spring. S. Morgan.

After considering alternative modes of explanation in the social sciences, this course offers an introduction to techniques and strategies for estimating causal effects from a counterfactual perspective. For problems where potential outcomes exist because they can be specified for well-defined causal states, alternative data analysis techniques will then be introduced and explained, including matching as stratification, propensity scores as weights in regression analysis, natural experiments as instrumental variable estimators of local average treatment effects, longitudinal data techniques from an interrupted time series perspective, and the front-door criterion for estimating causal effects via the exhaustive modeling of mechanisms. Because the course assumes some familiarity with advanced data analysis techniques, the course is not suitable for students who have not had some training in statistics and data analysis techniques at the graduate level. The course will meet weekly for the first seven weeks of the spring semester. Students who attend the lectures and participate in the discussion of the readings for the first seven weeks should enroll in the pass-fail 2-credit version of the course. Students who wish to carry on in the remaining weeks of the semester to write a term paper using the techniques should enroll in the graded 4-credit version of the course.

SOC 632(6320) Inside Technology: The Social Construction of Technology (also S&TS 632[6321])

Fall. 4 credits. T. Pinch.

For description, see S&TS 632.

SOC 660(6600) States and Social Movements (also GOVT 660[6603])

Spring. 4 credits. S. Tarrow.

For description, see GOVT 660.

SOC 680(6800) Workshop on Transnational Contention (also GOVT 681[6817])

Spring. 4 credits. S. Tarrow.

For description, see GOVT 681.

SOC 682(6820) Experimental Sociology Workshop

Fall and spring. 1 credit. S. Correll.

This course is a workshop where students develop original research projects using experimental research methods. Students take turns presenting their projects, as work-in-progress. Students will receive feedback from the instructor and from their fellow classmates. The goal is to turn student research projects into published journal articles.

SOC 685(6850) Research Practicum on Gender

Fall. 4 credits. S. Correll.

This course is an advanced graduate seminar designed to help Ph.D. students learn to conduct publishable research in the sociology of gender/sexuality. The goal will be to develop projects that are both empirically sound and reflect an understanding and appreciation of gender as a social phenomenon. In the second week of class, students will give a short presentation of a research project on gender that they began in a previous course. We will then read and discuss current debates on topics such as feminist methods and the application and penetration of gender theories in sociological research. Students will apply these readings as they critique and improve their own projects. Students will also be exposed to the review process and gain practice reviewing each others papers following the guidelines provided by the journal *Gender & Society*. We will conclude the class with short presentations of students' final projects.

SOC 691(6910) Independent Study

Fall or spring. 2-4 credits. Prerequisite: graduate status and permission of faculty member willing to supervise project. Staff.

For graduates who wish to obtain research experience or to do extensive reading on a special topic. Permission to enroll for independent study is granted only to students who present an acceptable prospectus and secure the agreement of a faculty member to serve as supervisor for the project throughout the semester.

SOC 778(7780) Solidarity in Groups (also ILROB 778[7780])

Fall. 3 credits. E. Lawler.

For description, see ILROB 778.

SOC 891-892(8910-8920) Graduate Research

891, fall; 892, spring. Variable to 4 credits each semester. Prerequisite: graduate standing and permission of faculty member willing to supervise project.

SOC 895-896(8950-8960) Thesis Research

895, fall; 896, spring. Variable to 6 credits each semester. Prerequisite: permission of thesis supervisor.

SOUTH ASIA PROGRAM

A. Basu, director; A. Banerjee, K. Basu, A. Blackburn, D. Bor, D. Boucher, I. Dadi, L. Derry, S. Feldman, D. Gold, D. Ghosh, M. Hatch, R. Herring, D. Holmberg, R. Kanbur, M. Katzenstein, K. A. R. Kennedy, N. Kudva, S. Kuruvilla, M. Latham, W. Liyanage, B. Lust, B. MacDougall, M. Majumdar, K. March, K. McGowan, S. Mohanty, S. Mukherjee, V. Munasinghe, A. Nussbaum, S. Oja, P. Olpadwala, B. Perlus, T. Poleman, J. Rigi, N. Sethi, S. Singh, D. Sisler, S. Toorawa, R. Travers, N. Uphoff, M. Walter, M. Weiss, A. Willford.

The South Asia Program coordinates research, teaching, and special campus events relating to Bangladesh, India, Pakistan, Nepal, and Sri Lanka. The program faculty include members from a variety of disciplines, including agricultural economics, agricultural engineering, anthropology, architecture, art, city and regional planning, comparative religion, development sociology, ecology and systematics, economics, English, geology, government, history, history of art, human ecology, industrial and labor relations, international agriculture, linguistics, and literature. Undergraduates with a special interest in the region may major in Asian Studies with a South Asian concentration, or complete a South Asia concentration with any other major. Graduate students may pursue the M.A. degree in Asian Studies with a concentration in South Asia.

Languages offered are Bengali, Hindi, Nepali, Sinhala, Sanskrit, and Urdu. Foreign Language and Area Studies scholarships are available to graduate students who are U.S. citizens or permanent residents. Cornell is a member of the American Institutes of Bangladesh, Indian, Pakistan, and Sri Lankan studies. For details on the major, see the Department of Asian Studies listing in this volume. For courses available in South Asian studies, or for further information on research opportunities, direct questions to the South Asia Program Office, 170 Uris Hall, 255-8493. www.einaudi.cornell.edu/SouthAsia.

SOUTHEAST ASIA PROGRAM

T. Chaloeitirana, director (180 Uris Hall); I. Azis, W. Bailey, A. Blackburn, A. Cohn, M. Fiskejo, M. Hatch, S. Kuruvilla, F. Logevall, T. Loos, K. McGowan, L. Paterson, J. Siegel, E. Tagliacozzo, K. Taylor, A. Willford, L. Williams, Emeritus: B. Anderson, R. Barker, R. Jones, S. O'Connor, E. Thorbecke, J. Wolff, D. Wyatt, Lecturers: J. Pandin, H. Phan, N. Jagacinski, T. Savella, T. Tranviet, S. Tun

Southeast Asia studies at Cornell is within the framework of the Department of Asian Studies and affiliates with the Einaudi Center for International Studies. Seventeen core faculty members in the colleges of Arts and Sciences, Business and the Johnson Graduate School of Management, the School of Industrial and Labor Relations, and Agriculture and Life Sciences participate in an interdisciplinary program of teaching and research on the history, culture, and societies of the region stretching from Burma through the Philippines. Courses are offered in such fields as anthropology, Asian studies, economics, finance, government, history, history of art, labor relations, linguistics, music, and development sociology. Instruction is also

offered in a wide variety of Southeast Asian languages: Burmese, Cambodian (Khmer), Indonesian, Tagalog, Thai, and Vietnamese. In addition, faculty from other disciplines provide area instruction on Southeast Asia. The formal program of study is enriched by a diverse range of extracurricular activities, including an informal weekly brown bag seminar, art exhibits at the Johnson Museum, and concerts of the Gamelan Ensemble. The George McT. Kahin Center for Advanced Research on Southeast Asia is also the site for public lectures as well as publication and outreach activities related to this area. The John M. Echols Collection on Southeast Asia, in Kroch Library, is the most comprehensive collection on Southeast Asia in the United States.

Undergraduates may major in Asian Studies with a focus on Southeast Asia and its languages, or they may elect to take a concentration in Southeast Asian studies with any other major by completing 18 credits of course work. Graduate students may work toward an M.A. degree in Southeast Asian studies or pursue a Master of Professional Studies in another school with a concentration in Southeast Asian studies. Ph.D. students specializing in Southeast Asia receive a doctorate in a discipline such as history, history of art, anthropology, government, music, economics, or city and regional planning. Academic Year and Summer Foreign Language and Area Studies scholarships are available to graduate students who are U.S. citizens or permanent residents.

For courses available in Southeast Asian studies and details on the major, see the Department of Asian Studies listing in this volume. Additional information is available at www.einaudi.cornell.edu/southeastasia. Inquiries for further information should be directed to the program office, 180 Uris Hall, 255-2378 or SEAP@cornell.edu.

SPANISH

See "Department of Romance Studies."

STATISTICAL SCIENCE DEPARTMENT

The university-wide Department of Statistical Science coordinates undergraduate and graduate study in statistics and probability. A list of suitable courses can be found under "Interdisciplinary Centers, Programs, and Studies" in the front of this catalog.

SWAHILI

See "Africana Studies and Research Center."

SWEDISH

See "Department of German Studies."

TAGALOG

See "Department of Asian Studies."

THAI

See "Department of Asian Studies."

THEATRE, FILM, AND DANCE

K. Goetz, chair; R. Archer, D. Bathrick, S. Bernstein, S. Brookhouse, J. Chu, S. Cole, W. Cross, D. Feldshuh (on leave spring 2007), A. Fogelsanger (director of undergraduate program in dance); D. Fredericksen (director of undergraduate program in film); J. E. Gainor (on leave 2006-2007) (director of graduate studies); S. Haenni, D. Hall, E. Intemann, J. Kovar, B. Levitt, P. Lillard, R. MacPike, B. Milles, J. Morgenroth (on leave fall 2006), M. Rivchin, N. Salvato, J. Self, B. Suber, A. Van Dyke (director of undergraduate studies), A. Villarejo, S. Warner

Through its courses and production laboratories, the department provides students with a wide range of opportunities in theatre, film, and dance. It also offers bachelor of arts degrees in each of those areas. These majors educate students in accordance with the general liberal arts ethic of the college. The department invites and encourages academic and studio participation by students from all disciplines.

Theatre Arts Major

R. Archer, D. Bathrick, S. Bernstein, S. Brookhouse, S. Cole, W. Cross, D. Feldshuh, J. E. Gainor (on leave 2006-2007); K. Goetz, chair; D. Hall, E. Intemann, B. Levitt, P. Lillard, R. MacPike, B. Milles, N. Salvato, A. Van Dyke (director of undergraduate studies), S. Warner

The theatre major offers studies in the history of theatre, dramatic theory and criticism, playwriting, acting, directing, design/technology, and stage management. Students interested in the theatre arts major should consult with Alison Van Dyke (director of undergraduate studies).

Theatre major requirements	Credits
1. THETR 240 and 241, and 242 (three-semester Introduction to World Theatre)	12
THETR 250 Introduction to Theatre Design and Technology	4
THETR 280 Introduction to Acting	3
2. Four laboratory courses distributed as follows:	
THETR 151 Production Lab I	1-3
THETR 153, 253, or 353 Stage Management Lab I, II, or III	1-3
THETR 155 Rehearsal and Performance or THETR 151 in a different area	1-3
THETR 251 or 351 Production Lab II or III	1-4
3. Three courses in the area of theatre studies (see "Theatre Studies" section of theatre courses) chosen in the following manner:	
one course must be at 300 level	
one course must be at 400 level	
one additional course at the 300 or above level	

one of the three courses must be pre-20th century.

- Three courses (at least 9 credits) in other theatre courses chosen in consultation with the faculty advisor. Course taken to qualify for admission to the Advanced Undergraduate Theatre Program (described below) may also be used to fulfill this requirement.
- Courses in which a student receives a grade below C cannot be used to fulfill the requirements for a Theatre major.

Honors

The theatre honors program is for majors who have demonstrated exceptional ability in the major and who seek an opportunity to explore branches of their subject not represented in the regular curriculum or to gain experience in original research. To be part of the honors program the student must maintain a GPA of 3.5 in classes for the theatre major and an average of 3.0 in all courses. Students must consult with their advisors in the spring of their junior year to enroll in the honors programs.

The Advanced Undergraduate Theatre Program

The department offers advanced study in directing, playwriting, design/technology, and stage management to students who qualify on the basis of outstanding achievement in course work. Admission to the AUTP is by invitation of the area faculty supervisor and the completion of a recommended "track" of courses or equivalent experience. (For recommended courses of study see listing of courses at end of departmental listings.) Approval process includes a portfolio review and/or interview. The program provides students with intensive study in theatre as well as the opportunity to collaborate with professional faculty and guest artists.

Independent Study, Internships and Honors

THETR 300(3000) Independent Study

Fall, spring, or summer. 1-4 credits. Independent study in theatre allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 225 Schwartz Center.

THETR 485(4850) Undergraduate Internship

Fall, spring, or summer. 1-3 credits. Prerequisite: majors or concentrators in the department.

Students are responsible for arranging their own internships in consultation with the faculty in their area of choice before preregistration for the semester in which the* internship is planned to take place. To receive credit for this course, the internship must be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

THETR 495(4950) Honors Research Tutorial

Fall, spring. 4 credits. Prerequisite: honors students in theatre.

First of a two-semester sequence (the second is THETR 496) for seniors engaged in an honors project.

THETR 496(4960) Honors Research Tutorial

Fall or spring. 4 credits. Prerequisite: honors students in theatre.

Second of a two-semester sequence (the first is THETR 495) for students engaged in an honors project.

First-Year Writing Seminars

Consult the John S. Knight Institute brochure for times, instructors, and descriptions.

Theatre Studies

THETR 223(2230) The Comic Theater (also CLASS 223[2641]) # (LA)

Spring. 3 credits. J. Rusten.

For description, see CLASS 223.

THETR 277(2770) Shakespeare (also ENGL 227[2270]) # (LA)

Fall. 4 credits. B. Correll.

For description, see ENGL 227

THETR 236(2360) Public Voice and Civic Gesture (also DANCE 236[2450], VISST 236[2360])

Fall. 1 credit. B. Suber and B. Milles.

This course combines acting and movement techniques encouraging process-oriented work. Focusing on performance in civic spaces, the class works to examine the politics of status and the social role of bodily (including vocal) expression of both performer and audience. Working within the specific context of urban public spaces, the class will question the function of monument and the character of urbanism in relation to individual bodies while understanding how these bodies combine to create a body politic. The class will consider traditional tools of political and social satire, including Commedia dell'Arte. Fundamental in commedia is the exploration of status, the gradations of power and influence and role-playing. Students will create their own texts and movement as well as draw from other textual and visual sources. The class will conclude with a public performance.

THETR 240(2400) Introduction to World Theatre I—Antiquity to 1500 # # (LA)

Fall. 4 credits. S. Warner.

A survey of practices, literatures, and themes of theatrical performance in Africa, America, Asia, and Europe from antiquity to around 1500. Examines case studies from ancient Egypt, Greece, Rome, the Near East, and India; and medieval and feudal Indonesia, China, Japan, and England; continuing up to the age of European colonialism. Looks at issues of masking and identity, storytelling and ritual, stage and society, tradition and modernity. Lectures are combined with periodic student projects.

[THETR 241(2410) Introduction to World Theatre II—Early Modernity # (LA)

* Spring. 4 credits. Next offered 2007–2008. Staff.

Survey of world theatrical performance from around 1500 to 1800. Examines the development of European and Asian vernacular and national theatrical traditions; recent ethnic and popular performance traditions of Europe, Asia, Africa, and meso-America; recurring issues of realism and theatricalism, innovation and nostalgia, and colonial expansion and marginalization.

Lectures are combined with periodic student projects.]

THETR 242(2420) Introduction to World Theatre III—1800 to the Present (LA)

Spring. 4 credits. Staff.

Traces the emergence of theatrical modernity as a global phenomenon. In Europe and North America, traces the progression from romanticism through realism and the modernist avant-gardes, to post-modernism and beyond. Traces the emergence of recent performance traditions in Asia and Africa in response to local and global forces, and the emergence of an increasingly global and intercultural economy of world theatre. Lectures are combined with periodic student projects.

THETR 273(2730) Opera (also MUSIC 274[2241]) # (LA)

Spring. 3 credits. R. Harris-Warrick.

For description, see MUSIC 274.

THETR 278(2780) Desire (also ENGL/COM L/FGSS 276[2760]) (LA)

Spring. 4 credits. E. Hanson.

For description, see ENGL 276.

[THETR 319(3190) Music, Dance, and Light (also DANCE 319[3590]) (LA)

Fall. 3 credits. Attendance at dance concerts and music concerts required. Next offered 2007–2008. A. Fogelsanger and E. Intemann.

Artistic values, parameters, and concerns of music (sound design), dance, and lighting design are compared and contrasted, and the combination of design elements is analyzed in contemporary dance. Includes writing in response to readings, audio and video recordings, and performances. Some classes devoted to creating sound, movement, and lighting.]

THETR 326(3260) Queer Performance (also FGSS 325[3250]) (LA)

Spring. 3 credits. Limited to 15 students. S. Warner.

What constitutes queer performance? Is queer who you are or what you do? Is sexuality all we mean by queer? Has queer performance enhanced or eclipsed gay and lesbian theater? This course investigates the polymorphously perverse relationship between queer theory and performance. Integral to our theoretical discussions are questions of practice and production: Where is queer performance staged and how is it received? How is it produced, for whom, by whom, and with what funds? What is the relationship between politics and performance? Students are expected to attend at least one performance outside of class and to collaborate on an in-class performance.

THETR 335(3350) Modern Western Drama, Modern Western Theatre: Theory and Practice (also COM L/ VISST 335[3735], ENGL 335[3350]) (LA)

Fall. 4 credits. N. Salvato.

This course investigates drama and the cultural contexts of its performance from the mid-19th century to the mid-20th century in Europe and the United States. We will consider such artistic movements as expressionism, symbolism, naturalism, futurism, constructivism, surrealism, and dadaism. The course will conclude with an emphasis on Brecht's epic theater, Artaud's theater of cruelty, and a few of their more contemporary descendants.

THETR 336 American Drama and Theatre (also AM ST 334)

Fall. 4 credits. Prerequisite: permission of instructor. Limited to 25 students. S. Warner.

This course explores major American playwrights from 1900 to 1960, introducing students to American theater as a significant part of modern American cultural history. Our focus will be to consider the ways in which theater has contributed to the construction and deconstruction of a national identity. We will pay special attention to the social, political, and aesthetic contexts of the time period and discuss the shifting popularity of dramatic forms, including melodrama, realism, expressionism, absurdism, and the folk play, in the American theater canon. Authors include: O'Neill, Glaspell, Odets, Rice, Hellman, Hughes, Hurston, Hansberry, Miller, Williams, and Albee, among others.

[THETR 337(3370) Contemporary American Theatre (also ENGL 337[3370]) (LA)

Fall. 3 credits. Limited to 15 students. Next offered 2007–2008. Staff.

How has theatre helped shape our notion of what it means to be an American in the second half of the 20th century? What role has politics played in recent theatrical experimentation? How has performance been used as a platform for constructing and deconstructing conceptions of identity, community, and nationality? In this course we will examine major trends in American drama from 1960 to the present. Readings for the class focus on theatre that responds directly to or intervenes in moments of social crisis, including: the Vietnam War, the Civil Rights Movement, the Women's Movement, the Gay and Lesbian Liberation Movement, and AIDS.]

THETR 345(3450) The Tragic Theatre (also CLASS 345[3645], COM L 344[3440]) # (LA)

Fall. 4 credits. Limited to 40 students. F. Ahl.

For description, see CLASS 345.

[THETR 372(3720) Medieval and Renaissance Drama (also ENGL 372/677[3720/6770]) # (LA)

Spring. 4 credits. Next offered 2007–2008. M. Raskolnikov.]

THETR 375(3750) Studies in Drama and Theatre: "Enemies, A 'Love' Story?" (also ENGL 375[3750]) (LA)

Fall. 4 credits. P. Lorenz.

For description, see ENGL 375.

[THETR 403(4030) Ritual, Play, Spectacle, Act: Performing Culture (also THETR 603[6030]) (LA)

Spring. 4 credits. Next offered 2008–2009. S. Warner.

Takes a broad-spectrum approach to performance. Includes anthropological texts on ritual and play, sociological texts on performances in everyday life, literary studies texts on "performatives" in speech and writing, folklore studies on parades and reenactments, psychological and philosophical studies on the role of performance in the formation of identity, as well as standard texts of the theater. Considers the distinctions between play, ritual, spectacle, festival, theater, and the "visual" arts. Explores the differences between spectating and witnessing and examine studies on audience behavior. At the base of the inquiry is the broad issue of the role of representational practices

within culture and among cultures. If, as Barbara Meyerhoff has written, we understand ourselves by showing ourselves to ourselves, what role does "showing" have in construction of the selves we seek to understand? Why is postmodern culture often called the "society of the spectacle" (Debord)? If, as Aristotle claimed, we are mimetic creatures at base, which comes first—representation or reality? Looking closely at the notion of "live" art, students weigh theorists who claim that performance is ephemeral and disappearing against those who claim that performance, such as oral history, is resilient and enduring. Students have the opportunity to do fieldwork, create performative works, and engage in scholarly study.]

[THETR 404(4040) Mythology and Postmodern Performance (also THETR 604[6040]) (LA)]

Spring. 4 credits. Limited to 15 students. Next offered 2007–2008.

Why has mythology flourished in performance projects despite the rather marginal position it has occupied in the academy in the past few decades? Does a survey of postmodern performances, especially by so called "marginal" or "minority" groups, suggest a shift toward a postsecular society? Bringing a variety of divergent discourses into dialogue, this course investigates the critical potentiality mythology holds for both performance theory and social activism. Specifically, it looks to mythology to provide a fresh perspective on cultural performances: sanctioned and unsanctioned forms of transgression; ritualized behavior; initiation and incarceration; and artistic projects aimed at consciousness raising and social change. In what ways does mythology provide an interesting alternative to mimesis as a discursive and performative strategy? How efficacious is it in representing concepts or situations that cannot adequately be conceived of in language or under the law?]

[THETR 426(4260) Adaptation: Text/Theatricality (also VISST 426[4260]) (LA)]

Spring. 4 credits. Prerequisite: permission of instructor. Next offered 2007–2008. B. Milles.

Mounting a script into a show is a process of adaptation from page to stage. But dramas have also been translations of other media. Sondheim's *Sunday in the Park with George* "adapted" a painting by Seurat. Stringberg's *Ghost Sonata* "translated" a symphony by Beethoven. Plays can even be adapted into other plays: Césaire's *A Tempest*, Paula Vogel's *Desdemona: A Play about a Handkerchief*, Heiner Müller's *Hamletmachine*. In performance art (where there is often no script) examples abound as well: Can you imagine reenacting Edward Manet's *Olympia* while someone builds a frame around you? And there are lots of exciting possibilities that arise in adapting across cultures—such as a Kathakali *Lear* or a Shakespearean *Mahabharata*. This course challenges the boundaries of text to discover the possibilities of performance. Asks: How do we translate inspiration into tangible (or intangible) theatrical imagery? Working in workshop format as actors and writers, students explore the process of developing theatre pieces based on a variety of sources.]

[THETR 431(4310) Theory of the Theatre and Drama # (LA)]

Fall. 4 credits. Next offered 2007–2008. D. Bathrick.

Surveys dramatic theory and theories of theatrical representation from Aristotle to the present. Although covering a span of over two thousand years, the point is to focus the analysis on a smaller number of key representative texts from the European, American, and postcolonial traditions. In so doing the goal is to develop a close reading of each text, while at the same time exploring both their reception within the context in which they emerged as well as their importance in the ever-evolving process of the institutions of theatre and drama over greater periods of time. Participants are expected to read carefully the primary and background texts assigned for each session and come to class prepared to raise and answer questions about the material at hand.]

[THETR 436(4360) The Female Dramatic Tradition (also FGSS 433[4330]) (LA)]

Spring. 4 credits. Next offered 2007–2008. Staff.

Is there a "female dramaturgy?" What is the female tradition in the theatre? This course explores these questions through an investigation of texts by women dramatists, including Hrotsvitha, Aphra Behn, and Caryl Churchill, as well as theory by such critics as Sue Ellen Case and Jill Dolan.]

[THETR 440(4400) Romantic Drama (also THETR 644[6440], ENGL 440/644[4440/6440]) (LA)]

Fall. 4 credits. R. Parker. For description, see ENGL 440.]

THETR 445(4450) Text Analysis for Production: How to Get from the Text onto the Stage (also VISST 445[4455], ENGL 444[4440])

Fall. 4 credits. Limited to 15 students. Prerequisite: THETR 281 or 250 or 398, or permission of instructor. B. Levitt.

Examines the play as the central, essential source for production decisions made by the actor, the director, the designer, and the dramaturg. Students "present" their conclusions about the performance of studied texts through project work as either an actor, director, designer, or dramaturg, as well as through two to three papers.

THETR 446(4460) Shakespeare in (Con)text (also ENGL 445[4450]) # (LA)]

Spring. 4 credits. Limited to 15 students. Prerequisite: permission of instructor. B. Levitt.

Examines how collaboration among stage directors, designers, and actors leads to differing interpretations of plays. The course focuses on how the texts themselves are blueprints for productions with particular emphasis on the choices available to the actor inherent in the text.

This is a special seminar sponsored by the John S. Knight Institute's Sophomore Seminars Program. Seminars offer discipline-intensive study within an interdisciplinary context. While not restricted to sophomores, the seminars aim at initiating students into the discipline's outlook, discourse community, modes of knowledge, and ways of articulating that knowledge. Limited to 15 students. Special emphasis is given to strong thinking and writing and to personalized instruction with top university professors.

[THETR 447(4470) Hamlet: The Seminar # (LA)]

Spring. 4 credits. Limited to 15 students. Prerequisites: THETR 240, 241, 242 or equivalent and permission of instructor. B. Levitt.

The most studied and written about work in Western Literature outside the Bible, *Hamlet*, according to Harold Bloom, is our secular savior and our ambassador to death. This course centers on a close reading of the play. Through research and assigned readings the course tests theoretical viewpoints about the play against the text itself by reading the theory in relationship to the production history.]

[THETR 483(4830) Seminar in Comparative 20th-Century Anglophone Drama (also ENGL 483[4601]) (LA)]

Fall. 4 credits. Recommended: some knowledge of classical and avant-garde theories of drama and theatre. B. Jeyifo. For description, see ENGL 483.]

[THETR 580(5800) Problems in Asian Art: Dancing the Stone: Body, Memory, and Architecture (also ART H 580[5850])]

Spring. 4 credits. Next offered 2007–2008. K. McGowan.]

THETR 600(6000) Proseminar in Theatre Studies

Spring. 4 credits. Prerequisite: graduate standing.

An introduction to the theory and methods involved in the study of the theatre. Attention focuses on pedagogy and the profession in Part I. Part II explores current scholarly trends.

THETR 627(6270) Studies in Shakespeare: Shakespeare and Marlowe (also ENGL 627[6270])

Fall. 4 credits. B. Correll. For description, see ENGL 627.

THETR 638(6380) Digital Bodies, Virtual Identities (also ENGL 638)

Fall. 4 credits. Prerequisite: permission of instructor. T. Murray. For description, see ENGL 638.

[THETR 648(6480) East and West German Drama: Post-1945 (also THETR 438[4380])]

3 credits. Next offered 2007–2008. D. Bathrick.]

[THETR 679(6790) Bertolt Brecht in Context (also COM L 679[6790])]

4 credits. Next offered 2007–2008. D. Bathrick.

Requirements: seminar paper that forms the basis for an oral presentation for class discussion. For description, see GERST 679.]

[THETR 680(6800) Brecht, Müller, and Avant-Garde]

Fall. 4 credits. Next offered 2007–2008. D. Bathrick.]

[THETR 703(7030) Theorizing Film]

Fall. 4 credits. Next offered 2007–2008. T. Murray.]

THETR 710(7100) The Pedagogy of Theatre

Fall. 4 credits. Corequisite: relevant undergraduate class and permission of instructor. Staff.

Provides graduate students in the field of theatre an opportunity to work directly with a faculty member to explore pedagogical theory

and practice for undergraduate theatre classes in all areas of the curriculum.

Acting

THETR 155(1550) Rehearsal and Performance

Fall or spring. 1-2 credits; 1 credit per production experience per semester up to 2 credits per semester. Students must register for course in semester in which credit is earned. Prerequisite: students who are assigned roles after tryouts at department's scheduled auditions. Students should add this course only after they have been assigned roles. S-U grades only.

The study, development, and performance of roles in departmental theatre or dance productions or the study and practice of directing as experienced in assisting faculty and guest directors.

THETR 205(2050) Rehearsal Workshop

Fall or spring. 2 credits. Limited to 30 students. Prerequisites: participation in a particular department production and permission of instructor. Staff.

Enables students participating in a particular production to gain expertise and/or knowledge to contribute to that production. The focus of the course depends on the needs of a particular production (e.g., history, choreography, textwork, dramaturgy).

THETR 280(2800) Introduction to Acting (LA)

Fall or spring. 3 credits. Limited to 16 students per sec. Preregistration and registration only through roster in department office, 225 Schwartz Center. No online registration. Staff.

An introduction to the actor's technique and performance skills, exploring the elements necessary to begin training as an actor, i.e., observation, concentration, and imagination. Focus is on physical and vocal exercises, improvisation, and text and character. There is required play reading, play attendance, and some scene study.

THETR 281(2810) Acting I (LA)

Fall or spring. 3 credits. Limited to 14 students per sec. Prerequisites: sophomore standing and above; THETR 280 and audition. Registration only through roster in department office, 225 Schwartz Center. Practical exploration of the actor's craft through exercises in physical and psychological action, improvisation and scene study.

[THETR 282(2820) Standard American Stage Speech (LA)

Fall. 3 credits. Limited to 10 students. Prerequisites: THETR 280 and permission of instructor. Next offered 2007-2008. A. Van Dyke.

Introduction to Standard American Stage Speech. Study of various regional American accents and Standard American Stage Speech using the International Phonetic Alphabet (IPA) as a way to designate the vowel, diphthong, and consonant sounds of spoken English. The goal of this course is to learn speech for use in performing Shakespeare, Shaw, Chekhov, Moliere, etc.]

THETR 284(2840) Speech and Dialects for Performance (LA)

Fall. 3 credits. Limited to 10 students. Primarily for department majors. Prerequisites: THETR 281 and permission of instructor. A. Van Dyke.

Development of speech and dialects in dramatic text.

THETR 380(3800) Acting II (LA)

Fall. 3 credits. Limited to 12 students. Prerequisite: THETR 281 and audition. S. Cole.

Continuation of Acting I. Special consideration is given to a physical approach to characterization.

THETR 381(3810) Acting III: Advanced Scene Study (LA)

Spring. 3 credits. Limited to 10 students. Prerequisite: audition. Strong preference given to those who have taken THETR 446. B. Levitt.

Focuses on advanced problems for the stage. Monologues and scenes are drawn from Shakespeare and classical sources.

THETR 384(3840) Commedia: A Contemporization of Physical Acting Styles and the Comic Approach (also VISST 385(3850)) (LA)

Fall. 3 credits. Limited to 10 students. Prerequisite: THETR 281 and permission of instructor. B. Milles.

A wholly physical acting course based in the practices of Commedia dell'arte—stock characters, physical lazzi, improvisation, street theatre—using improvisation, some mask work, clown and viewpoint training. An exploration of how to use the body to illuminate text, and how to mine text to maximize comedy.

THETR 385(3850) Advanced Studies in Acting Techniques (LA)

Fall. 3 credits; may be repeated for credit. Limited to 8 students. Prerequisites: THETR 281, audition, and permission of instructor. Fall: Alternative Shakespeare. B. Levitt; spring: Acting with an accent. A. Van Dyke.

Topic for fall: Shakespeare's plays were a popular entertainment in the Elizabethan period. The course will explore combining Shakespeare's language—from plays and sonnets, and explore combining that work with popular forms of entertainment today such as Beat Boxing and Hip Hop. The course will lead to the construction of a theatre piece to be rehearsed and performed in January. Course work will consist of text work, research on themes and structural organization of the piece, some dance instruction, some musical and singing instruction and the evolution of the text for Beat Box Bard. Guests will be brought in to teach aspects of this type of work.

Directing

THETR 177(1770) Student Laboratory Theatre Company

Spring. 1-2 credits. The Student Laboratory Theatre Company (SLTC) is a group of student-actors who earn credit by acting in three scenes directed by students taking THETR 498. Students enrolling in SLTC for credit earn 1 credit for two projects and 2 credits for three projects. SLTC also meets with directors once a week.

THETR 398(3980) Fundamentals of Directing I (also VISST 398[3798]) (LA)

Fall. 3 credits. Limited to 9 students. Prerequisite: permission of instructor. Special consideration given to students who have completed THETR 280 or are intending to continue in area of stage or screen directing. Students should see instructor one year in advance to sign up for course. D. Feldshuh.

Focused, practical exercises teach the student fundamental staging techniques that bring written text to theatrical life. A core objective is to increase the student's awareness of why and how certain stage events communicate effectively to an audience. Each student directs a number of exercises as well as a short scene.

THETR 498(4980) Fundamentals of Directing II (LA)

Spring. 4 credits. Limited enrollment. Prerequisite: THETR 280 and 398, and permission of instructor. Recommended: THETR 250 and 281. B. Milles.

Builds on the staging techniques learned in Fundamentals of Directing I. In this course each student directs actors from the Student Laboratory Theatre Company in a series of projects and public presentations focusing on specific directorial challenges.

THETR 499(4990) Practicum in Directing

Fall or spring. 1-4 credits. Prerequisites: THETR 240, 250, 280, 398, 498, and permission of instructor. D. Feldshuh. Allows the student who has completed the appropriate prerequisites the opportunity to direct a full presentation of theatre in conjunction with a faculty mentor. May also involve an internship with a prominent director on campus or the opportunity to assistant direct a faculty or guest director.

Playwriting

[THETR 348(3480) Playwriting (LA)

Fall. 4 credits. Limited to 12 students. Prerequisite: permission of instructor. Next offered 2007-2008. Staff. Various approaches and techniques are examined as the student is introduced to the art and craft of dramatic writing. The student is required to read dramatic texts, observe theatre productions and rehearsals, and write. The semester culminates in the completion of a 20- to 30-minute one-act play.]

THETR 349(3490) Advanced Playwriting (LA)

Fall. 4 credits. Prerequisite: THETR 348 or permission of instructor. B. Milles. Continuation of THETR 348. An intensive writing class. Students are encouraged to explore a rich creative landscape culminating in the completion of a full length play. Focus is on the clarification of dramatic action with emphasis on conflict, theatrical language and refining the visual impulse.

[THETR 497(4970) Seminar in Playwriting

1-4 credits. Prerequisite: THETR 348 and 349 and permission of instructor. Next offered 2008-2009. Staff. Extension of THETR 348 and 349. Students formulate a process for developing a full-length play, which they develop over the course of the semester. The class meetings are made up of discussions about the students'

process and creative tactics, and reading of material generated by the playwrights.]

Design, Technology, and Stage Management

Design

THETR 250(2500) Fundamentals of Theatre Design and Technology (LA)

Fall and spring. 4 credits. Limited to 12 students. Not open to first-semester freshmen. Registration only through department roster in 225 Schwartz Center. Highly recommended: concurrent enrollment in 1 credit of Production Lab (THETR 151 or 251). Students required to purchase materials that instructors specify (approx. cost \$50). K. Goetz, W. Cross, E. Intemann, and S. Bernstein.

Lectures, discussion, and project work introduce the principles of designing scenery, costumes, lighting and sound, and the technical process of realizing designs on stage.

[THETR 254(2540) Theatrical Makeup Studio]

Spring. 3 credits. Limited to 10 students. Prerequisite: permission of instructor. Registration only through department roster in 225 Schwartz Center. Students are required to purchase makeup kits that instructor provides (approx. cost \$50). It is expected that any interested student will have taken courses within the department in any of the areas of: design, acting, dance, or film, or will have completed rehearsal and performance (THETR 155) credit.

Basic technique of makeup design and application for the stage including corrective, old age, likeness, and animals; use of some three-dimensional makeup and false facial hair.]

[THETR 319(3190) Music, Dance, and Light (also DANCE 319[3590]) (LA)]

Fall. 3 credits. Attendance at dance concerts and music concerts required. Next offered 2007–2008. E. Intemann and A. Fogelsanger.

Artistic values, parameters, and concerns of music (sound design), dance, and lighting design are compared and contrasted, and the combination of design elements is analyzed in contemporary dance. Includes writing in response to readings, audio and video recordings, and performances. Some classes devoted to creating sound, movement, and lighting.]

THETR 341(3410) CAD Studio for Theatre Design

Fall and/or Spring. 3 credits. Prerequisite: THETR 250 and 340 and permission of instructor. Registration only through department roster in 225 Schwartz Center. Experience in theatre production and graphic communication helpful but not essential. Staff.

Students will utilize commercially available computer assisted design software to explore the process of designing scenery, costume and lighting for the live theatre. AutoCad, Vectorworks and Photoshop are some of the applications utilized.

[THETR 343(3430) Costume History: From Fig Leaf to Vanity # (LA)]

Fall. 3 credits. Limited to 20 students. Next offered 2007–2008. S. Bernstein.

Offers an overview of the history of clothing from the first signs of clothing to the early 20th century. It investigates social, political, economic, technological, geographic, ecological, and artistic influences on costume.]

THETR 362(3620) Lighting Design Studio I (also DANCE 362[3660], VISST 362[3662]) (LA)

Fall. 4 credits. Limited to 6 students. E. Intemann.

The theory and practice of lighting design as a medium for artistic expression. This course explores the aesthetic and mechanical aspects of light and their application in a variety of disciplines. Emphasis is on understanding lighting's function in an environment and manipulating light effectively. Artistic style and viewpoint are also covered.

THETR 364(3640) Scenic Design Studio (LA)

Fall. 3 credits. Limited to 10 students. Prerequisite: THETR 250 and 340 or permission of instructor. Recommended: experience in theatre production and graphic skills. Students are required to purchase materials that instructor will specify (approx. cost \$50). K. Goetz.

An exploration of the process of designing scenery for the live theatre. Projects employ various media to explore dramatic use of architecture, the scenic space, and elements of interior design.

THETR 365(3650) Automated Lighting and Control Systems

Fall. 3 credits. Limited to 8 students. Prerequisite: permission of instructor. Highly recommended: at least 1 credit of THETR 151 or 251. E. Intemann and F. Sellers.

Covers the understanding and application of light control technologies, including electrical systems, color, optics, dimming protocols, and console programming. Students complete a series of projects culminating in the programming and use of moving fixtures and lighting visualization software.

THETR 366(3660) Costume Design Studio (LA)

Spring. 3 credits; may be repeated for credit Limited to 10 students. Students are required to purchase materials that instructor will specify (approx. cost \$70). S. Bernstein.

Design of costumes for the theatre, concentrating on script and character analysis, period research, design elements, figure drawing and rendering skills, and an understanding of production style.

THETR 368(3680) Sound Design and Digital Audio (also DANCE 368[3680], MUSIC 355[3431]) (LA)

Fall. 4 credits. Prerequisite: permission of instructor. Recommended: some experience with audio/video recording or editing; previous enrollment in one of the following: FILM 377, FILM 391, MUSIC 120, MUSIC 320, or THETR 250.

Basics of digital audio, psychoacoustics, and sound design as they apply to theatre, film, and music production. Weekly projects require time spent in the studio outside of class. Students create soundtracks for text and moving image, with final projects in 5.1 surround sound, using Pro Tools and Digital Performer.

THETR 369(3690) Digital Performance (also DANCE 369[3560], MUSIC 356[3441]) (LA)

Fall. 4 credits. Prerequisite: permission of instructors. Laptop computer and MAX/MSP software required, see www.cycling74.com for student software pricing. Lab performance at end of semester. Recommended: previous enrollment in one of the following: COM S 100, DANCE 210, DANCE/THETR 368, VISST 211. W. Cross and A. Fogelsanger.

Introduction to the multimedia programming language MAX/MSP and its application to computer-interactive dance. Intended to bring together programmers and dancers. Each student will create movement and software patches, and collaborate with others on a final project focusing on the input, manipulation, and output of sound, video, graphics, and lighting in live performance. Topics include digital audio/video processing, MIDI control, sensor use, electroacoustic music, history and current state of computer technology and dance, and aesthetics. Includes 3-hour Wednesday night lab.

[THETR 371(3710) Costume Design Studio II (LA)]

Fall. 3 credits. Limited to 10 students. Prerequisite: THETR 366, or THETR 250 with permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$50). Next offered 2007–2008. S. Bernstein.

Explores unconventional costume designs for theatre and dance. Deals with the special considerations found in many plays and performance pieces, such as the theatricalization of nonhuman subjects (e.g., animals, plants, machines, magical creatures), the visualization of music, or the support or enhancement of movement. Also covers alternative (some non-Western) ways to create character through costume, make-up, masks, and wearable forms of puppetry.]

THETR 462(4620) Lighting Design Studio II (also DANCE 462[4660]) (LA)

Spring. 4 credits. Limited to 6 students. Prerequisite: THETR 250 or 362 or permission of instructor. E. Intemann.

Concentrates on designing lighting for different genres of performance in various venues. Emphasis is placed on developing both the visual sophistication and the technical artistry of the lighting designer. Commitment, personal style, and professional presentation are stressed.

THETR 464(4640) Scene Design Studio II (LA)

Spring. 3 credits. Prerequisite: THETR 364 or permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$50). K. Goetz.

Projects and activities are tailored to the creative and developmental needs of the individual student with emphasis on developing professional standards and practices that would prepare the student for a major design assignment in the department production season.

Technology

THETR 252(2520) Technical Production Studio I

Fall. 3 credits. Limited to 6 students. D. Hall and F. Sellers.

Stage Lighting and Sound Technology: the practical aspects of lighting and sound technology including equipment setup, engineering, electrics, organization, recording techniques, and production paperwork are explored through projects, lectures, and class discussions. In addition to twice-weekly class meetings the course requires a laboratory commitment of 50 hours for the semester.

THETR 256(2560) Technical Production Studio II

Spring. 3 credits. Limited to 6 students. Students are required to purchase materials that instructor will specify (approx. cost \$15). Prerequisite: THETR 250 or permission of instructor. Additional hands-on time in prop and paint shops required, to be discussed. C. Seakatz and T. Ostrander.

Scene Painting: introduction to the basic techniques of painting scenery, including but not limited to the layout and painting of bricks, marble, stone, and wood grain for the theatre. Individual projects in scene painting and participation on paint crew for productions are included.

Stage Properties: introduction to the processes of propmaking, including furniture construction and upholstery techniques, use of shop tools and materials, period research, and painting and finishing.

THETR 340(3400) Theatrical Drafting and Technical Drawing Studio

Fall. 3 credits. Limited to 5 students. Prerequisite: permission of instructor. S. Brookhouse.

Implementation of the fundamentals of drafting and technical drawing. Introduction of the concept of an individual style in the approach to drafting for the theatre. Involves a series of projects to familiarize students with the convention and process of visualization and drafting, using both mechanical drafting techniques and AUTOCAD.

THETR 352(3520) Themed Entertainment: The Technical Perspective

Fall. 3 credits. Limited to 12 students. R. Archer.

Exploration into the integration of art and science in today's theme parks and interactive entertainment attractions. Papers, projects, and discussions deal with planning and development aspects of large-scale entertainment projects including architecture, engineering, construction, and attraction installation. Focus is on the specialized entertainment technologies that make these attractions work: audio and lighting design, ride and show control systems, and special effects.

THETR 354(3540) Stagecraft Studio

Fall. 3 credits. Prerequisite: THETR 250 or permission of instructor. Highly recommended: concurrent enrollment in at least 1 credit of THETR 151 or 251. R. Archer.

Exploration of the techniques and practice of theatre operation, scenic construction, stage mechanics, rigging, painting, and model building.

THETR 356(3560) Costume Construction Studio

Spring. 3 credits. Highly recommended: concurrent enrollment in at least 1 credit of THETR 151 or 251. Lab fee: \$100 (paid in class). R. MacPike.

Project/lecture/discussion class in costume research, patterning, cutting, construction, and fitting.

THETR 360(3600) Costumes: Special Projects

Fall. 3 credits; may be repeated for credit. Prerequisite: permission of instructor. Lab fee: \$150 (paid in class). R. MacPike.

Designed for students who have completed a basic construction class (in THETR or TXA, or another department). Each fall, this project-oriented course focuses on one of the following areas of costume crafts: millinery, fabric modification, or mask making. Students should check with the instructor to find out each fall which topic is being offered.

Stage Management

THETR 153(1530) Stage Management Production Laboratory I (also DANCE 153[1630])

Fall and spring. 1-2 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as assistant stage manager for a dance theatre concert or as a stage manager for readings, Black Box lab productions, or SLTC under the supervision of the faculty production manager. THETR 370 complements this course.

THETR 253(2530) Stage Management Laboratory II (also DANCE 253[2630])

Fall and spring. 1-5 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as assistant stage manager for a season production under the supervision of the faculty production manager. THETR 370 complements this course.

THETR 353(3530) Stage Management Laboratory III

Fall and spring. 1-4 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 P.M. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as stage manager for a dance theatre concert or an AUP production under the supervision of the faculty production manager. THETR 370 complements this course.

THETR 370(3700) Stage Management Studio

Fall. 2 credits. Prerequisite: THETR 250 or 280 or permission of instructor. Students are required to purchase materials that instructor will specify (approx. cost \$10). P. Lillard.

Introduction to the concepts and techniques of stage management as they relate to specific areas of production. Development of relevant communication skills and an understanding of the production process as experienced by a working stage manager or assistant stage manager. THETR 153, 253, and 353 complement this course.

THETR 453(4530) Stage Management Laboratory IV

Fall and spring. 1-5 credits; may be repeated for credit. Prerequisite: admission to Advanced Undergraduate Theatre Program. P. Lillard.

Practical experience in theatrical production as stage manager for a season production under the supervision of the faculty production manager.

Production Laboratories

THETR 151(1510) Production Laboratory I (also DANCE 151[1610])

Fall and spring. 1-3 credits; may be repeated for credit. No prerequisites or experience required. Orientation meeting at 7:30 P.M. first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, S. Brookhouse, and F. Sellers.

Provides practical experiences in theatrical production. Students can work on scenery, costumes, properties, lighting, or stage crew.

THETR 251(2510) Production Laboratory II (also DANCE 251[2610])

Fall and spring. 1-3 credits; may be repeated for credit. Prerequisite: permission of instructor. Orientation meeting at 7:30 P.M. on first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, D. Hall, F. Sellers, and R. MacPike.

Practical experience in theatrical production, as a light board operator, sound board operator, sound technician, head dresser or scenery/props special project.

THETR 351(3510) Production Laboratory III

Fall and spring. 1-3 credits; may be repeated for credit. Prerequisite: permission of instructor. P. Lillard, R. Archer, S. Brookhouse, K. Goetz, D. Hall, E. Intemann, and F. Sellers.

Practical experience in theatrical production as a master electrician, assistant technical director, assistant costume shop manager, or assistant to a faculty or guest director or designer.

THETR 451(4510) Production Laboratory IV

Fall and spring. 1-4 credits; may be repeated for credit. Prerequisite: admission to Advanced Undergraduate Theatre Program. P. Lillard, R. Archer, S. Brookhouse, K. Goetz, D. Hall, and E. Intemann.

Practical experience in theatrical production, in the position of designer, shop manager, technical director, or sound engineer.

Independent Study, Internships, and Honors

THETR 300(3000) Independent Study

Summer, fall, or spring. 1-4 credits. Independent study in the theatre allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course, must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 225 Schwartz Center.

THETR 485(4850) Undergraduate Internship

Fall, spring, or summer. 1–3 credits. To be eligible to enroll and receive credit for an internship, students must either be majors or be concentrators in the department. Students are responsible for arranging their own internships in consultation with the faculty in their area of choice *before* preregistration for the semester in which the internship is planned to take place. To receive credit within this course, the internship must be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

THETR 495(4950) Honors Research Tutorial

Fall or spring. 4 credits. Prerequisite: honors students in theatre. First of a two-semester sequence (the second is THETR 496) for seniors engaged in an honors project.

THETR 496(4960) Honors Research Tutorial

Fall or spring. 4 credits. Prerequisite: honors students in theatre. Second of a two-semester sequence (the first is THETR 495) for students engaged in an honors project.

Film

D. Bathrick, D. Fredericksen (director of undergraduate studies in film), S. Haenni, M. Rivchin, A. Villarejo

The study of film began in this department in the 1930s and continues to be based here. In the intervening years, however, it has also spread into a significant number of other departments in the College: Africana studies, anthropology, Asian studies, comparative literature, English, German studies, government, history, psychology, Romance studies, and women's studies. This proliferation of courses has been accompanied by a comparable proliferation of perspectives and faculty concerns, e.g., the relationship of national cinemas to national literatures and specific cultures, film's relationships to myth and ideology, the use of film as historical evidence, film's efficacy as a rhetorical medium, and film's contribution to perennial issues in aesthetics, the history of the arts, and studies in cognition. The foundational courses in film production and in the history, theory, and criticism of film as an art are centered in this department.

This richness of courses and perspectives is matched by the ways in which students may make film the focus of their undergraduate studies. The three ways currently being used are: (1) majoring in film within the Department of Theatre, Film, and Dance; (2) constructing an individually tailored Independent Major in film (including the possibility of placing film in tandem with another medium or discipline); and (3) focusing on film as a College Scholar. Students interested in options 2 or 3 should consult Don Fredericksen (director of undergraduate studies in film) and the director of the College Scholar Program or the director of the Independent Major program. Students interested in the first option should consult Don Fredericksen (director of undergraduate studies in film). In addition, students should be aware that the college has recently approved a five-course concentration in visual

studies, which can be taken independently of, or in conjunction with, a major in film. Students interested in the visual studies concentration should contact its director.

Film Major Requirements

The department's film major requires a total of 50 credits in film and related courses. Students should note that a number of film courses—including two required "core" courses: (FILM 375 and 376)—are offered in alternating years. This means that *students cannot fulfill the requirements for the major in less than two years* and that they should plan accordingly, in consultation with their major advisor. In particular, students must plan to be in residence at Cornell during the fall semesters of both their junior and senior years to take FILM 375 and 376. Within the "core" required courses, FILM 274, Introduction to Film Analysis, is to be taken during the sophomore year. **Note: Prospective majors must earn a grade of B (not B-) or higher in FILM 274 to be accepted into the major. Students may not enter the major until they have completed FILM 274 in the fall semester of their sophomore year.**

Majors wishing to use the production courses in a substantial manner must plan carefully and work within certain limits. These courses are FILM 324, 377, 383, 422, 477, 478, 493. *Enrollment in each of these courses is limited by the nature of the work and by facilities.* Enrollment in FILM 477, 478, and 493 depends on the quality of previous work in FILM 377 and/or 383; enrollment is not guaranteed. Majors *without* a strong interest in production can complete the production requirement with one course: FILM 377, after they have taken FILM 274 in their sophomore year. The total credits in production courses cannot exceed 20 hours; this limit is strictly enforced.

1. A core of *four* film courses:

FILM 274 Introduction to Film Analysis (offered every fall semester) 4

FILM 375 History and Theory of Commercial Narrative Film (offered alternate fall semesters; next offered fall 2006 (prerequisite for film majors: FILM 274)) 4

FILM 376 History and Theory of Documentary and Experimental Film (offered alternate fall semesters; offered fall 2007) (prerequisite for Film majors: FILM 274) 4

FILM 377 Introduction to 16mm and Digital Filmmaking (offered fall 2006 and 2007 and spring 2008) 4

2. *One* of the following theatre courses:

THETR 250 Fundamentals of Theatre Design/Technology (offered every semester) 4

THETR 280 Introduction to Acting (offered every semester) 3

THETR 398 Directing I (prerequisite: permission) (offered every fall semester) 3

3. *Four* courses (15–16 credits) in film offered by Theatre, Film and Dance as below, or (with permission of advisor) by other departments:

FILM 265 Studies in Film Analysis: Hitchcock's Films (offered fall 2006) 4

[FILM 276 Survey of American Film (next offered fall 2007)] 4

FILM 329 Political Theory and Cinema (next offered spring 2007)

[FILM 344 American Film Melodrama (next offered spring 2008)] 4

FILM 346 Film Noir (offered occasionally; next offered spring 2007) 4

FILM 369 Fast-Talking Dames and Sad Ladies: 1940s and Now (offered yearly; offered spring 2007) 4

[FILM 378 Soviet Film of 20s and French Film of 60s (offered occasionally; next offered spring 2009)] 4

[FILM 379 Modern Documentary Film (offered alternate spring semesters; next offered spring 2008)] 4

FILM 383 Screenwriting (next offered spring 2007) 4

[FILM 386 Cinema and Social Change (offered occasionally; next offered 2008–2009)] 4

FILM 391 Media Arts Studio I (offered occasionally; TBA fall 2006) 3

[FILM 393 International Film of the 1970s (next offered fall 2007)] 4

FILM 395 Video: Art, Theory, Politics (offered occasionally; next offered 2006–2007) 4

[FILM 396 German Film (offered occasionally; next offered 2007–2008)] 4

FILM 422 Cinematography (offered spring 2007) 3

[AS&RC 435 African Cinema (offered alternate years; next offered 2007–2008)] 4

[FILM 450 Rescreening the Holocaust (offered occasionally; next offered 2008–2009)] 4

FILM 455 History of Modern Polish Cinema (offered alternate years; offered fall 2006) 4

FILM 473 Film and Spiritual Questions (offered alternate spring semesters; next offered spring 2007) 4

[FILM 474 Jung, Film, and the Process of Self-Knowledge (offered alternate years; next offered spring 2008)] 4

[FILM 475 Seminar in the Cinema I (offered most years; topic varies; may be repeated for credit) 4

[FILM 476 Seminar in the Cinema II (offered occasionally; topic varies; may be repeated for credit) 4

[FILM 477 Intermediate Film and Video Projects: Documentary and Experimental Workshop (offered alternate years; offered fall 2007)] 4

FILM 478 Intermediate Film and Video Projects: Narrative Workshop (offered alternate years; next offered fall 2006) 4

FILM 493 Advanced Film and Video Projects (offered spring 2007) 4

4. 15 credits of related course work inside or outside the Department of Theatre, Film and Dance (as approved by the major advisor). The courses chosen to fulfill this requirement should reinforce

a major's particular interest in film and will not necessarily be film courses *per se*. For example, a student interested in the psychology of film, or in ethnographic film, or in film *vis-à-vis* intellectual or social history, or in film and social change will be encouraged to choose related course work in those areas.

- Students must earn at least a B (not B-) in FILM 274 to enter the major. In all subsequent courses used for the major a grade of C (not C-) must be achieved. Courses in which these minimums are not achieved must be repeated if the student is to receive credit in the major.
- Course work in production cannot exceed 20 credit hours.

Honors

Students who have maintained a GPA of 3.5 in their film major courses, and an average of 3.0 in all courses, may elect to work for honors in film during their senior year. They must consult with their advisor in the spring of their junior year about the honors program in film. Honors projects are possible in filmmaking and film analysis (history, criticism, theory). Projects in filmmaking require an analytical component related to the creative work.

The Advanced Undergraduate Filmmaking Program

The department offers advanced study in filmmaking to students who qualify on the basis of outstanding achievement in film studies and film production courses. Acceptance to the AUFPP and admission to the advanced film production course (FILM 493) will be determined by a committee of film faculty in December of each year, based on applications from students who have a proposal (script or treatment) for a film or video project.

Film Study Abroad

The College of Arts and Sciences, through this department and in concert with a number of other American colleges and universities, offers up to a full year of study at the Paris Center for Critical Studies and, through the center, at the University of Paris III. The center's film program is theoretical, critical, and historical. It is most useful to students whose major interest is in the academic study of film and serves as a complement to Cornell's film courses. Fluency in French is required. FILM 274 and 375 are prerequisites. Inquiries should be addressed to Professor Fredericksen, Cornell's liaison with the center.

Computing in the Arts Undergraduate Concentration

A concentration in Computing in the Arts with an emphasis on film is available both to film majors and to students majoring in other subjects. For more information, see "Computing in the Arts Undergraduate Concentration" under "Departments, Programs and Courses" in the "College of Arts and Sciences," or contact the Director of Undergraduate Studies in Film, dlf10@cornell.edu.

FILM 265(2650) Studies in Film Analysis: Hitchcock's Films (also ENGL/FGSS 263[2630]) (LA)

Fall. 4 credits. L. Bogel.
For description, see ENGL 263.

FILM 274(2740) Introduction to Film Analysis: Meaning and Value (also FILM 674[6740], VISST 274/674[2174/6740]) (LA)

Fall. 4 credits. Limited to 40 students.
Graduate students must enroll in FILM 674.
D. Fredericksen.

Intensive consideration of the ways films generate meaning and of the ways we attribute meaning and value to films. Discussion ranges over commercial narrative, documentary, and personal film modes. Prospective film majors should enroll in their sophomore year.

[FILM 276(2760) Survey of American Film (also AM ST 230[2760], VISST 230[2300]) (LA)

Fall. 4 credits. Required film screenings; disc once a week. Offered alternate years; next offered 2007-2008. S. Haenni.
For description, see AM ST 230.]

FILM 293(2930) SSP: Middle Eastern Cinema (also NES 293[2793], COM L 293[2930], JWST 291[2793], VISST 293[2193]) @ (LA)

Fall. 4 credits. D. Starr.
For description, see NES 293.

[FILM 324(3240) Animation Workshop: Experimental and Traditional Methods (LA)

Summer. 3 credits. Cost for equipment: \$200. L. Tomlinson.
The art of animation involves many dimensions, including time and motion. This course introduces students to the fundamentals of traditional animation and the mechanics used to capture the illusion of movement. By modeling the projects on the work of artists who have pushed the potential of animation in new directions, students investigate innovative ways of animating sequential images and objects. Emphasizing tactile processes—drawing, sculpting, and painting—and recording the images we create to capture movement and expression, students explore a variety of experimental and fine-arts approaches used in modern-day animation.]

FILM 325(3250) Animation History & Practice (LA)

Summer. 3 credits. Limited to 12 students.
Equipment fee: \$75. M. Tomlinson.
Beginning with the pre-history of animation, optical toys and magic lantern projections, and continuing through a century of animation history to contemporary work, this course investigates the history of animation from around the world, through a variety of hands-on production projects, as well as lectures, discussions, research, and screenings. Combining tactile and digital methods, students create weekly collaborative and individual animated films, incorporating lessons from the historical work studied.

[FILM 341(3410) French Film (also FRLIT 336[3360]) (LA)

Fall. 4 credits. Offered occasionally; next offered 2007-2008. T. Murray.]

[FILM 344(3440) American Film Melodrama (also AM ST 338, ENGL 344, VISST 345) (LA)

Spring. 4 credits. Recommended: some background in film analysis. Next offered 2007-2008. S. Haenni.

Understanding melodrama as a 'mode of excess' which powerfully affects film audiences, this course focuses on melodramatic style and themes (paranoia, trauma) in different historical moments

(World War II, postwar suburban America, the contemporary moment).]

FILM 346(3460) Film Noir (also AM ST 348[3480], VISST 348[3480]) (LA)

Spring. 4 credits. Recommended: some course work in film. S. Haenni.
At the close of World War II, the French coined the term "film noir" to describe a new, "dark," and "gloomy" set of Hollywood films that were populated by femmes fatales, criminal gangs, private eyes, and lovers on the run, and which centered on issues of violence, crime, paranoia, betrayal, pessimism, and self-doubt. Derived from hard-boiled detective fiction and influenced by German expressionist cinema, *film noir* has become one of the most acclaimed genres in Hollywood film. This course explores both the stylistic characteristics and thematic and cultural contexts of *film noir*. Examines the history and function of "noir" as a critical term; the influence of hard-boiled fiction; and the evolution of noir style and *noir* narratives. Investigates how *film noir* articulates anxieties about postwar masculinity and the sexual and social roles of women; how it popularizes psychology; how it portrays the city as an "urban jungle"; and how it represents a response to fears about communism and the atomic bomb. Screenings include major studio features such as *Double Indemnity* and *Laura*, B-pictures such as *Detour* and *Gun Crazy*, and "neo-noirs" such as *Chinatown* and *Devil in a Blue Dress*. Discussion of films is guided by readings in film criticism and history.

FILM 369(3690) Fast-Talking Dames and Sad Ladies: 1940s and Now (also ENGL/FGSS 369[3690]) (LA)

Spring. 4 credits. L. Bogel.
For description, see ENGL 369.

FILM 375(3750) History and Theory of the Commercial Narrative Film (also VISST 375[3175]) (LA)

Fall. 4 credits. Fee for screening expenses: \$10 (paid in class). Prerequisite: for film majors FILM 274. Offered alternate years; next offered 2006-2007. S. Haenni.
Consideration of the broad patterns of narration in the history of the commercial narrative film. Emphases are placed on the early articulation of a cinematic means of narration, realism as an artistic style, the nature and functions of popular film, and the modes of modernist and post-modernist "art cinema" narration.

[FILM 376(3760) History and Theory of Documentary and Experimental Film (also VISST 376[3176]) (LA)

Fall. 4 credits. Fee for screening expenses: \$10 (paid in class). Highly recommended: FILM 274. Offered alternate years; next offered 2007-2008. D. Fredericksen.
Analyzes canonical works in documentary film up to the end of World War II, including Vertov, Flaherty, Grierson, Hurwitz, Grierson, Wright, Capra, Riefenstahl, and the connection between documentary film and modernism(s) in the 1920s and 1930s. Also includes analysis of canonical works in the avant-garde/experimental/personal film tradition(s) in Europe and the United States from the 1920s to the 1980s, including French impressionism, surrealism, the New Realism, graphic cinema, and the several patterns of the American personal film during its heyday (1940s to the late 1970s).]

FILM 377(3770) Introduction to 16mm and Digital Filmmaking (LA)

Fall and spring. 4 credits. Limited to 12 students. Intended for juniors and seniors (who may need to sign up a year or more in advance) with priority given to film majors. Prerequisite: FILM 274 (or higher-level film studies course) and permission of instructor. Equipment fee: \$150 (paid in class). Average cost to each student for materials and processing is \$500.

M. Rivchin.

Creative, hands-on production course in filmmaking, emphasizing the development of original ideas and the acquisition of basic technical skills in both 16mm and miniDV formats: cinematography, lighting, sound recording and editing, and film and non-linear digital editing. Students complete several exercises and two short projects; the final project may be narrative, documentary, experimental, or animation and is shown in a public screening at the end of the semester on campus.

[FILM 378(3780) Soviet Film of the 1920s and French Film of the 1960s (LA)]

Spring. 4 credits. Fee for screening expenses: \$10 (paid in class). Highly recommended: FILM 375. Offered occasionally; next offered 2008–2009.

D. Fredericksen.

Intensive treatment of two distinct periods of radical innovation in film theory and history. Emphasis is on the animated relationship between theory and filmmaking during these two decades.]

[FILM 379(3790) Modern Documentary Film (LA)]

Spring. 4 credits. Highly recommended: FILM 375. Fee for screening expenses: \$10 (paid in class). Offered alternate spring semesters; next offered 2007–2008.

D. Fredericksen.

An intensive consideration of canonical documentary films from 1945 to the present. Emphases are on the documentary film as an artistic form with a distinct history and set of theoretical questions, as a sociopolitical force, as an ethnographic medium within and without a filmmaker's culture, and as a televised medium of persuasion and expression.]

FILM 383(3830) Screenwriting: Bringing Your Vision to the Page (LA)

Spring. 4 credits. Limited to 12 students. Prerequisite: completed application, writing sample, and permission of instructor.

Students must go to 225 CT to apply. Staff.

This course explores the fundamentals of traditional Hollywood and independent screenplays.

[FILM 386(3860) Cinema and Social Change (was Third Cinema) (LA)]

Spring. 4 credits. Next offered 2008–2009.

A. Villarejo.

Explores the role of cinema in social and political change that address processes of decolonization as well as issues of labor, health-care, gender and racial equity, globalization, war, and imperialism.]

FILM 391(3910) Media Arts Studio I (also ART/MUSIC/VISST 391[3791]) (LA)

Fall. 3 credits. Prerequisite: permission of instructor and junior standing, minimum FILM 377 or 277, or dance studio courses. Equipment fee: \$50 (paid in class). Participating faculty include M. Rivchin, film; J. Zissevici, arch.; B. Suber, dance.

Collaborative interdisciplinary studio course in a variety of digital and electronic media, including art, architecture, music, dance, film, and video. Group projects to investigate and produce interactive work in public spaces on campus.

[FILM 393(3930) International Film of the 1970s (also AM ST/VISST 393[3930]) (LA)]

Fall. 4 credits. Recommended: some background in film analysis. Offered occasionally; next offered 2007–2008.

S. Haenni.

Considers how the social, political and cultural upheavals of the late '60s (Watergate, Vietnam, terrorism, etc.) affected film aesthetics, narrative, and style; emphases on 'new' Hollywood, European art cinema, black independent and blaxploitation films, etc.]

[FILM 395(3950) Video: Art, Theory, Politics (also ENGL 395[3950])]

Fall. 4 credits. Offered occasionally; next offered 2007–2008. T. Murray.]

[FILM 396(3960) German Film (also GERST 396[3960]) (LA)]

Fall. 4 credits. Offered occasionally; next offered 2007–2008. D. Bathrick.

Explores German film from the Weimar and Nazi periods to the present in relation to the cultural and sociopolitical content of which it was a part.]

FILM 422(4220) Cinematography (LA)

Spring. 4 credits. Limited to 8 students.

Pre- or corequisite to FILM 493.

Prerequisite: permission of instructor. Letter grades only. Equipment fee: \$150.

Advanced camera and lighting techniques, designed for students who have taken at least FILM 377 and/or advanced photography courses or computer animation courses. M. Rivchin.

Students work on a series of tests, short exercises, and scene projects using sync and non-sync 16mm cameras, digital video cameras, camera movement apparatus, lighting instruments, a range of lighting instruments, filters, and gels and digital video cameras to expand their knowledge of the technical and aesthetic aspects of cinematography.

FILM 430(4300) Topics in American Studies: The Cinema and the American City (also AM ST 430.10, VISST 430[4630]) (CA)

Fall. 4 credits. Weekly screenings TBA.

The Cinema and the American City. The emergence of the cinema in the late-19th century coincided with the emergence of a new kind of metropolis, characterized, among other things, by new traffic systems (elevated train, subway, automobile), new racial, ethnic, and sexual regimes, and new urban planning. The cinema was inevitably affected by the ways in which the city developed, while at the same time it also made the city legible. In this course, we will examine how American cities and towns have been represented in film in different ways, as, for instance, musical symphonies, mysteries to be deciphered, or post-apocalyptic wastelands. We will explore how gender, racial, ethnic, class and sexual identities are negotiated in the modern, cinematic city. Screenings will range from silent and early sound films, such as *The Crowd* and 1930s musicals, to contemporary cinema, such as *Do the Right Thing* and *Blade Runner*; our viewings will be guided by readings in film and urban theory and history.

[FILM 450(4500) Rescreening the Holocaust (also COM L 453[4530], GERST 449[4490], RELST 450[4500]) (LA)]

Fall. 4 credits. Offered occasionally; next offered 2008–2009. D. Bathrick.

A survey of the major films dealing with the Holocaust. The course focuses on the possibilities and limits of representing the Holocaust cinematically, as well as questions more specifically concerning commercialization, fictionalization, trivialization, documentation, visualization, and narrativization in the making and distributing of films about this event.]

FILM 455(4550) History of Modern Polish Film (LA)

Fall. 4 credits. Prerequisite: some film analysis course work. D. Fredericksen.

Analysis of Polish film from 1945 to the present, within the context of Poland's postwar history. Topics include the period of socialist realism, the so-called "Polish School" (1956–1962), the cinema of moral anxiety, Solidarity cinema, and the Polish documentary tradition. Key directors considered include Ford, Wajda, Munk, Polanski, Skolimowski, Zanussi, Falk, Piwowski, Bugajski, Krzystek, Kijowski, Zaorski, Kieslowski, and Lozinski. Some attention is given to the development of Polish film theory. The extra-filmic context is set by such works as Norman Davies' *Heart of Europe*, Czeslaw Milosz' *The Captive Mind*, and Eva Hoffman's *Exit into History*.

FILM 473(4730) Film and Spiritual Questions (LA)

Spring. 4 credits. Limited to 20 students. Offered alternate years. D. Fredericksen.

The use of film as a medium for the expression of spiritual questions has a long and rich history, although little attention is given to this fact in contemporary film studies. This seminar examines films and writings by filmmakers who are so inclined, including Baillie, Gardner, Bergman, Dreyer, Bresson, Godard, Scorsese, Brakhage, Belson, Whitney, Rouquier, Newby, Kubrick, and Bae Yong-Kyun. Special attention is given to the work of Andrei Tarkovsky, the Russian film director and theorist. Readings include Tarkovsky's *Sculpting in Time*, Smith's *Why Religion Matters*, Eliade's *The Sacred and the Profane*, Edinger's *The Christian Archetype*, Schrader's *Transcendental Style in Film*, and Warren and Locke's *Women and the Sacred in Film*.

[FILM 474(4740) Jung, Film, and the Process of Self-Knowledge (LA)]

Spring. 4 credits. Limited to 20 students. Offered alternate years; next offered 2007–2008. D. Fredericksen.

"Know thyself" is one of the oldest and most enduring imperatives of the human spirit, and the *raison d'être* for liberal studies. This seminar traces in some detail the Jungian approach to this imperative and then tests its critical capacities with respect to films.]

[FILM 475(4750) Seminar in Cinema I (also AM ST 475[4750]) (LA)]

Fall. 4 credits. Next offered 2007–2008.]

[FILM 476(4760) Seminar in the Cinema II (LA)]

Fall or spring. 4 credits. Offered occasionally; next offered 2007–2008.]

[FILM 477(4770) Intermediate Film and Video Projects: Documentary and Experimental Workshop (also VISST 477(4770)) (LA)]

Fall. 4 credits. Limited to 8 students. Prerequisites: FILM 377 as minimum production; priority given to those who have taken FILM 376, 379, or 386 and permission of instructor based on project proposals. Equipment fee: \$150 (paid in class). Film projects costs: \$300-\$1,500; video: \$100-\$400. Next offered 2007-2008. M. Rivchin.

Intensive course in 16mm filmmaking and digital video in which each student develops a significant documentary or experimental project both critically and creatively. Readings, discussions, and exercises are designed to increase the student's knowledge and practice of: cinematography, lighting, sync-sound filming, and editing techniques; working with labs; digital video camera; and nonlinear (Final Cut Pro and AVID) digital editing.]

FILM 478(4780) Intermediate Film and Video Projects: Narrative Workshop (LA)

Fall. 4 credits. Limited to 8 students. Prerequisites: FILM 377 as minimum production; priority given to those who have taken FILM 375 or 383; THETR 398 or 413, and permission of instructor based on proposals. Equipment fee: \$150 (paid in class). Film projects costs: \$500-\$1,500; video: \$100-\$200. M. Rivchin.

Intensive course in 16mm filmmaking and digital video in which each student develops a significant, original narrative script project that he or she then directs, shoots in crews, and edits. Student may opt for narrative documentary or experimental work as well. Readings, discussions, and exercises are designed to increase the student's knowledge and practice of directing; cinematography, lighting, sync-sound filming, and editing techniques; working with labs and sound houses; digital video camera; and digital (Final Cut Pro, AVID, and ProTools) editing.

FILM 485(4850) Undergraduate Internship

Fall, spring, or summer. 1-3 credits. To be eligible to enroll and receive credit for an internship, students must either be majors or concentrators in the department. Students are responsible for arranging their own internships in consultation with the faculty in their area of choice before preregistration for the semester in which the internship is planned to take place. To receive credit within the course, the internship must be unpaid. Students must follow the rules and procedures stated on the departmental internship form.

FILM 493(4930) Advanced Film and Video Projects (LA)

Spring. 4 credits. Limited to 6-8 students. Permission only. Prerequisite: minimum FILM 377, priority given to those who have taken 477, 478, or 324. Recommended: FILM 383 and THETR 398. Equipment fee: \$150. Project costs: \$500-\$2,000. M. Rivchin.

Intensive filmmaking course in which students focus on developing and producing a single, already-proposed (15-30 min.) 16mm film or digital video project over the semester. Students direct and edit their own (or collaborative) projects working in crews for sync-sound dialog narrative films or documentaries and in small groups for technical exercises and assisting in non-sync projects. Readings, discussions, and exercises are designed to increase the student's

knowledge and practice of script revision; directing; scene breakdowns, auditions, and casting; cinematography, lighting, sync-sound filming, and editing techniques; working with labs and sound houses; digital video camera; and digital (Final Cut Pro, AVID, and ProTools) editing.

FILM 674(6740) Introduction to Film Analysis: Meaning and Value

Fall. 4 credits. Limited to 10 graduate students. D. Fredericksen.

Intensive consideration of the ways films generate meaning and of the ways we attribute meaning and value to films. Discussion ranges over commercial narrative, documentary, and personal film modes. Graduate students who intend to teach film at the undergraduate level are especially welcome. In addition to full participation in the work of FILM 274, graduate students read and discuss in tutorials primary sources in film theory.

FILM 722(7220) Independent Study in Film for Graduate Students

Fall or spring. Staff.

Dance

Faculty: J. Chu, A. Fogelsanger (director of undergraduate studies in dance), E. Intemann, J. Kovar, J. Morgenroth (on leave fall 2006), J. Self, B. Suber.

The dance program offers courses in dance technique, improvisation, composition, performance, anatomical analysis of movement, dance technology, music for dance, and the history, theory, and criticism of dance. Technique courses include introductory dance technique, modern dance at three levels, and Western classical dance at three levels. (Other dance forms, such as Indian dance, and Javanese dance, are offered periodically. A variety of courses in other dance idioms, taken through the Physical Education program, supplement these offerings.) Technique courses develop strength, flexibility, coordination, and the ability to perceive and reproduce phrases of dance movement with clarity of rhythm, body design, and expression. The more advanced courses require the ability to perform complex phrases in various styles. Students may earn up to 16 academic credits (2 each semester) in technique courses. Students may also satisfy the physical education requirement by taking dance technique courses or other movement courses in the dance program. Students taking technique for academic credit must also register through their own colleges. The schedule for all dance technique courses is available in the main office of the Sheila W. and Richard J. Schwartz Center for the Performing Arts.

The faculty offer rehearsal and performance workshops in which they choreograph and rehearse original dances, performed in public concert. Admission to rehearsal and performance courses is by permission. Students may receive one academic credit per semester (S-U grades only) when performing in student-faculty concerts by registering for DANCE 155.

Dance Major Requirements

A revised dance major has been approved for implementation in Fall 2006. Students accepted into the major through Spring semester 2006 may choose to meet either the old requirements or the new. Students

accepted beginning in Fall semester 2006 must satisfy the new requirements below. Copies of the previous requirements may be obtained from the director of undergraduate studies in dance through Spring 2008.

Prerequisites: 2 credits in category I below and one course in category II below.

Prerequisites count towards the 40 credits fulfilling the major.

The major: 40 credits (towards which the prerequisites for the major count) are required of all students majoring in dance as follows:

- I. 6 credits: six 1-credit movement courses chosen from Dance Technique (DANCE 122, 231, 232, 303, 304, 306, 308, 309), Explorations (DANCE 233, 234), Improvisation (DANCE 201), Indian Dance (307, 317), and other courses approved by the dance faculty. The 6 credits must include at least 2 from Dance Technique courses, and at least 2 from Explorations and Improvisation courses. Any two of these courses taken to satisfy the university's Physical Education requirement may be counted towards the major, thus decreasing the number of academic credits possibly to as low as 38. Movement courses taken for 0 academic credits do not count towards the major.
- II. 14 credits: Dance composition (DANCE 210, 310) and history/theory (DANCE 313, 418).
- III. 2 credits: 1 credit of performance (DANCE 155) and 1 credit of production (DANCE 151, 153, 251, or 253).
- IV. 18 credits: selected from Dance and related fields, including: at most 2 additional 1-credit movement courses; at most 4 additional credits in DANCE 151, 153, 155, 251, 253, and 316; and at most two courses outside of Dance, which may include courses on sound, music, light, non-western movement forms, design, performance and visual studies, and must be approved by the dance faculty.

In all courses used for the dance major, a grade of C (not C-) must be achieved. Courses in which this minimum is not achieved must be repeated if the student is to receive credit in the major.

A partial list of courses from outside Dance which may be used to satisfy part IV of the major requirements includes MUSIC 103, 104, 105, 107, and 108; and THETR 250.

Honors

Students who have maintained a GPA of 3.5 in classes for the dance major and an average of 3.0 in all courses may elect to work for honors in dance during their senior year. They must consult with their advisor in the spring of their junior year about the honors program in dance.

Computing in the Arts Undergraduate Concentration

A concentration in Computing in the Arts with an emphasis on dance is available both to dance majors and to students majoring in other subjects. For more information, see "Computing in the Arts Undergraduate Concentration" under "Departments, Programs and Courses" in the "College of Arts and Sciences," or contact the Director of Undergraduate Studies in Dance, danceprogram@cornell.edu.

Dance Technique

Students may register for any Western dance technique course (DANCE 122, 231, 232, 303, 304, 306, 308, and 309) for 0 or 1 academic credit, with a limit of 2 credits per semester and 16 credits total. That is, in a single semester students may take at most two 1-credit dance technique courses; all additional dance technique courses must be taken for 0 credit. All these courses may be repeated for credit, and students will usually be placed in a given course for at least two semesters.

Dance Improvisation (DANCE 201), Explorations in Movement and Performance (DANCE 233), and Indian Dance (DANCE 307) may be taken for 0 or 1 academic credit, which does not count as part of the 2 credit per semester and 16 credits total limit above.

Students also have the option to receive physical education (PE) credit for all the courses above to satisfy the university's physical education requirement. Students may not get Dance and PE credit simultaneously for the same course.

The courses Dance Technique I (DANCE 122), Dance Improvisation (DANCE 201), Explorations in Movement and Performance (DANCE 233), and Indian Dance (DANCE 307) are introductory courses open to all students. Students registering in Dance may pre-enroll, enroll online, or sign up with the Department of Theatre, Film, and Dance registrar in 225 Schwartz before the end of the add period; they will need a drop/add slip. Students registering in PE may pre-enroll, or add during the one- or two-day PE registration before the first day of classes; afterward, registration is not allowed.

The non-introductory dance technique courses (DANCE 231, 232, 303, 304, 306, 308, and 309) will now allow online pre-enrollment and online enrollment, but the instructor will ultimately use his or her own discretion to determine the right classes for a student to attend. All students, and new students in particular, should be prepared for the possibility of being asked to switch courses during the first few weeks of the semester.

The advanced dance technique courses (DANCE 303, 304, 306, 308, and 309) may be taken with an additional 1-credit academic component, Writing Dance Criticism (DANCE 316). Students may also receive credit for performing in two ways, by being cast in a faculty-choreographed dance (DANCE 155), and by dancing in student-choreographed works made for composition courses (DANCE 156). Any two 1-credit dance courses except DANCE 212 may be aggregated to count as one-half course for the purpose of satisfying the College of Arts and Sciences 34-course requirement. They do not satisfy a distribution requirement.

DANCE 122(1200) Dance Technique I (also PE 160[1180])

Fall and spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Fall: J. Kovar; spring: J. Chu.

Entry-level class. Covers the fundamentals of elementary dance training. Movement sequences focusing on rhythm, placement, and vitality of performance through an anatomically sound dance technique.

DANCE 155(1250) Rehearsal and Performance

Fall and spring. 1 credit. Students must register for course in semester in which credit is earned; requests for retroactive credit are not honored. Prerequisite: students cast in faculty-choreographed dances. Students may add this course only after they have been assigned roles. S-U grades only.

Includes the study, development, and performance of roles in departmental dance productions.

DANCE 156(1500) Dance Performance Workshop

Fall and spring. 1 credit. Attendance at dance concerts is required. May be repeated. S-U grades only. Fall: J. Chu and J. Self. Spring: J. Self.

Students learn and perform dances choreographed by Dance Composition students. Course work includes: rehearsing an average of two hours a week with student choreographers, attending dance composition class (faculty led) once a week for 90 minutes, and possibly performing in departmental dance productions or mid or end of semester class showings. Students in this course will receive feedback on their performance from the faculty member teaching the Composition course and from the composition students within class discussion periods, to help them refine their skills as performers (including dynamics, focus, phrasing, rhythm, dramatic presence, etc.) in both classroom and public showing of student work. They will sometimes participate in class discussion of the student compositions, gaining insight into the compositional process. This type of participation will be an introduction to dance composition for students interested in pursuing the composition curriculum.

DANCE 201(2480) Dance Improvisation

Spring. 1 credit. Limited to 12 students. Attendance at dance concerts required. S-U grades only. J. Morgenroth.

When the body knows when, where, and how to move without prior direction, we call that improvisation. This course coaxes inspiration, seeking to make it reliable and to keep it surprising. It offers the possibility of "training" one's movement instincts to respond relevantly and with spontaneity. Solo and group forms are covered. Live musical accompaniment.

DANCE 231(2210) Dance Technique II/Classical (also PE 1180)

Spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. B. Suber.

Introductory Western classical technique intended for students with some dance training. Includes basic barre and centre work focusing on presence and presentation.

DANCE 232(2220) Dance Technique II/Modern (also PE 161[1181])

Fall and spring. 0 to 1 credit; may be repeated. S-U grades only. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. Fall, B. Suber; spring, J. Kovar.

Introductory modern technique intended for students with some dance training. Material covered includes specific spinal and center work with attention to rhythm, design, and movement expression.

DANCE 233(2410) Explorations in Movement and Performance (also PE 162[1181], VISST 233[2533])

Spring. 0 or 1 credit. Limited to 16 students. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. J. Self.

A physically demanding exploration into various movement realms. Specific subjects covered are genderized movement, erotic power, spiritual power, ritual, and performance. Techniques include extensive use of breath, animal movement, improvisation, and group games. This course requires an eagerness to investigate the nature of performance and explore unfamiliar territory in movement.

[DANCE 234(3410) Masculine, Feminine, or Neutral: Explorations in Movement and Performance II]

Spring. 0 or 1 credit. Limited to 16 students. Prerequisite: DANCE 201, 233, or permission of instructor. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Next offered 2007–2008. J. Self.

Continues themes from Explorations in Movement and Performance (DANCE 233), with special emphasis on the differences and similarities between "masculine" or "feminine" expressions in movement and performance.]

DANCE 235(2430) Hip-Hop, Hollywood, and Home Movies: Exploring Movement and Media (also PE 161[1181], VISST 235[2430])

Fall. 3 credits. Permission of instructor. Letter grades. Requirements include attendance at performances with written responses, selected readings, and home-movie production.

This course is a laboratory for generating and exploring contemporary dance forms. Monday sessions are devoted to viewing media and discussion. We will be looking at early B-boy films, recent dance-battle documentaries, classic dance clips from Hollywood films, and other related pieces (Black Dance, Show Dance, Art Dance). Wednesday is a laboratory for trying out movements and creating simple dance/music videos (home-movies). This course will be of special value for choreographers using popular dance forms and those interested in the history of popular culture. Everyone must be willing and able to improvise dance moves, teach classmates and exchange movement ideas.

DANCE 236(2450) Public Voice and Civic Gesture (also THETR 236[2360], VISST 236[2360])

Fall. 1 credit. B. Suber and B. Milles.

This course combines acting and movement techniques encouraging process-oriented work. Focusing on performance in civic spaces, the class works to examine the politics of status and the social role of bodily (including vocal) expression of both performer and audience. Working within the specific context of urban public spaces, the class will question the function of monument and the character of urbanism in relation to individual bodies while understanding how these bodies combine to create a body politic. The class will consider traditional tools of political and social satire, including *Commedia dell'Arte*. Fundamental in *commedia* is the exploration of status, the gradations of power and influence and role-playing. Students will create their own texts and movement as well as draw from other textual and visual

sources. The class will conclude with a public performance.

DANCE 303(2240) Dance Technique Workshop (also PE 161[1181], VISST 303[3503])

Spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Requirements include attendance at performances with written responses. J. Self.

Primarily Parallel Universe. The course will explore working primarily in parallel position as a basic technique for strengthening the legs, posture and physical presence by blending movements from Modern Dance, Jazz, Hip Hop, Yoga and other related forms. Students must be willing to experiment with new concepts of constructing movement techniques.

DANCE 304(3210) Dance Technique III/ Classical (also PE 161[1181])

Fall. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. B. Suber.

Intermediate Western classical technique. Work is done on strengthening the body through a movement technique emphasizing presence and musicality based on harmonic muscular control.

DANCE 306(3220) Dance Technique III/ Modern (also PE 161[1181])

Fall and spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. Fall, J. Chu; spring, J. Morgenroth.

Intermediate modern technique focusing on rhythm, placement, and phrasing for students who are prepared to refine the skills of dancing. Students are challenged by complex phrases and musicality.

DANCE 307(1320) Indian Dance I (also PE 163)

Fall. 0 to 1 credits. Satisfies PE requirement if taken as PE. Satisfies @ if taken for 3 credits. D. Bor.

Designed to give students a working knowledge of Indian classical dance in both movement and theory. The movement section focuses on Odissi classical dance, the indigenous style of Orissa state, starting with basic exercises, to open and strengthen the body and prepare it for the structured form of Odissi. Basic exercises, steps, and a full choreographed piece are taught and performed at the end of the semester. The core material of this class can benefit all forms of dance. For 3-credit students, the theory section focuses on history and development of the main styles of South Asian classical dance, their role in society and distinguishing characteristics. This is done through lectures, videos, and reading assignments.

DANCE 308(4220) Dance Technique IV/ Modern (also PE 161[1181], VISST 308[3508])

Fall and spring. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. J. Chu.

Advanced and pre-professional Modern technique. A continuation of and supplement to DANCE 306.

DANCE 309(4210) Dance Technique IV/ Classical (also PE 161[1181])

Fall. 0 to 1 credit; may be repeated. Satisfies PE requirement if taken as PE. Attendance at dance concerts required. S-U grades only. B. Suber.

Advanced and pre-professional Western classical. A continuation of and supplement to DANCE 304.

DANCE 316(3240) Writing Dance Criticism

Fall and spring. 1 credit; may be repeated. Corequisite: DANCE 303, 304, 306, 308, or 309. Attendance at two or three concerts required. Fall: J. Chu and B. Suber. Spring: J. Chu, J. Morgenroth, and J. Self.

Dance criticism for incorporation with technique. Topics rotate depending on instructor, class focus, and relevance to guest dance companies. Attendance at two or three concerts required (same as for dance technique), additional readings and/or viewing of recorded performances as assigned by instructor, and three five- to seven- page analytic papers.

DANCE 355(3250) Repertory

Spring. 0 or 1 credit. Prerequisite: permission of instructor. Attendance at dance performances required. J. Chu.

Reconstructs a dance by an important modern dance choreographer. Through a close examination of the composition process, and with readings, the course studies the historical and aesthetic role of this work and its continued influence today.

[DANCE 407(4399) Early Dance (also MUSIC 407[4511])

Fall. 1 credit. Next offered 2007-2008. R. Harris-Warrick.

For description, see MUSIC 407.]

Dance Composition

DANCE 210(2500) Beginning Dance Composition (also VISST 211[2711]) (LA)

Fall and spring. 3 credits. Attendance at dance concerts required. Fall, J. Chu and J. Self; spring, J. Self.

Special topic for section 1. Writing, Dancing, Drawing: Choreography and Performance Workshop. How do the visual, verbal and movement realms intersect? How do the disciplines of writing, drawing and choreography inform and shape our sense of reality and place. This course explores the use of "drawn" or "found" visual images, "written" choreography and other conceptions of time, space and narrative to create group and individual projects. Requirements include attendance at performances with written responses, notebook work and sketchbook work. Includes informal showing of work.

Section 2. Weekly assignments in basic elements of choreography. Students compose and present short studies that are discussed and reworked. Problems are defined and explored through class improvisations. Informal showing at end of semester. Includes informal showing of work.

DANCE 310(3500) Intermediate Dance Composition I (LA)

Fall and spring. 3 credits. Prerequisite: DANCE 210. Fall, J. Chu and J. Self; spring, J. Self.

Intermediate choreographic projects are critiqued in progress by faculty and peers. Consideration of design problems in

costuming and lighting. For full description, see DANCE 210.

DANCE 311(3510) Intermediate Dance Composition II (LA)

Fall and spring. 3 credits. Prerequisite: DANCE 310. Co- or prerequisite: DANCE 323 or 324. Attendance at dance concerts required. Fall, J. Chu and B. Suber; spring, J. Morgenroth and J. Self. Continuation of DANCE 310. For full description, see DANCE 210.

DANCE 323(3520) Music Resources II

Fall. 2 credits. Prerequisite: DANCE 212. Attendance at dance concerts and music concerts required. DANCE 212 and 323 together count as a course for purposes of graduation and for satisfying humanities or literature and arts distribution requirement. DANCE 323 not offered after fall 2006. A. Fogelsanger.

Intended to expand choreographers' conceptions of music and its uses for dance, including serving as a source for ideas of choreographic organization. A continuation of DANCE 212 in its survey of contemporary music for dance and the study of music and dance collaborations, but also includes examples from film and the plastic arts. Reading topics include criticism and aesthetics of dance, music, and the arts in general. Includes discussion of and writing about concerts, and audio and video recordings. May include rehearsing and performing music or dance. Concentrates especially on minimalism, improvisation, and polystylism in music, dance, the two considered together, and other arts singly and in combination. The DANCE 212-323 sequence is being replaced by DANCE 324. DANCE 323 will not begin meeting until September 25 and will thereafter meet simultaneously with DANCE 324. Contact instructor for details.

DANCE 324(3530) Music and Choreography (also MUSIC 408[4512]) (LA)

Spring. 3 credits. Attendance at dance concerts and music concerts required. A. Fogelsanger.

Intended to expose students to music they probably have not heard and are unlikely to seek out on their own, particularly contemporary "classical" music and music used in modern concert dance; to mark out the possible relationships between music and dance when combined in concert; and to pull apart the compositional construction of musical pieces to consider what musical structuring ideas might be profitably applied by choreographers to making dances. The course also considers examples from film and the plastic arts, provides students with some experience making sound and movement, and includes discussion of and writing about concerts, and audio and video recordings. Reading topics include criticism and aesthetics of dance, music, and the arts in general, in particular concentrating on counterpoint, minimalism, improvisation, and polystylism. DANCE 324 replaces the sequence DANCE 212-323.

DANCE 410(4500) Advanced Dance Composition I (LA)

Fall and spring. 3 credits. Prerequisite: DANCE 311. Attendance at dance concerts required. Fall, J. Chu and J. Self; spring, J. Self.

Students work on advanced choreographic problems, to be presented in performance.

Work in progress is critiqued by faculty members on a regular basis. For full description, see DANCE 210.

DANCE 411(4510) Advanced Dance Composition II (LA)

Fall and spring, 3 credits. Prerequisite: DANCE 410. Attendance at dance concerts required. Fall, J. Chu and J. Self; spring, J. Self.

Continuation of DANCE 410. For full description, see DANCE 210.

DANCE 491(4010) Senior Project in Dance

Fall and spring, 3 credits; students receive grade when DANCE 492 is completed. Prerequisite: DANCE 311; senior dance majors.

First of a two-semester sequence (the second is DANCE 492) for senior dance majors. Students create a project in choreography and performance, dance, film or video, dance pedagogy, or other appropriate area agreed on with their senior project advisor and committee. In addition, there is a 15-page paper that expands their work into a historical, theoretical, or aesthetic context. For guidelines see the director of undergraduate studies in dance.

DANCE 492(4020) Senior Project in Dance II

Fall or spring, 3 credits. Prerequisite: DANCE 491.

Second of a two-semester sequence (the first is DANCE 491) for senior dance majors.

History, Criticism, and Theory

[DANCE 204(2080) SSP: Seminar in Dance Studies (also DANCE 418(4080)) (CA)]

Fall, 4 credits. Limited to 15 students. Next offered 2007–2008. J. Morgenroth.]

[DANCE 312(3120) The Moving Body: Form and Function (PBS supplementary list)]

Fall, 3 credits. Next offered 2007–2008. J. Morgenroth.

Examines the bodily systems involved in human movement with particular attention to dance movement. Readings in texts on human anatomy, physiology, and kinesiology.]

DANCE 313(3141) History: The Body in Performance (LA)

Fall, 4 credits. Prerequisites: Readings, viewing of videos, and attendance at live performances. Letter grades only. J. Chu.

How does the social production of dance reflect its historical context? What is the meaning of the "beautiful" in dance? Beginning with 16th-century court dances, we will explore how aesthetics have been aligned both with and against politics in various periods and genres of the performing body, looking at dance as insiders' diplomacy and outsiders' rebellion. Is postmodern dance a discourse of its past? What is the contemporary relationship among African, European, and stubbornly American traditions? This course is designed to promote a critical appreciation of dance, its values and its ambitions, by developing an historical and cultural understanding.

DANCE 418(4080) Seminar in Dance Studies (CA)

Spring, 4 credits. Limited to 15 students. B. Suber

50s Movie Musicals and Modernism. Utilizing, as a point of departure, films such as *A Star*

is Born and *White Christmas*, this seminar will explore modernist spatialities, as defined through body movement and architecture. Rising tensions between popular entertainment and modernist impulses, and between stage, screen and television, will be examined. Camp as queer sensibility in non-musical films such as *All About Eve*, and semi-musicals such as *Beyond the Valley of the Dolls*, will be related to the movie musical, modern dance, modern architecture and modern art practices. Also, the class will look to the Hayes Code as arbiter of a surrealist aesthetic from films such as *An American in Paris* to television specials such as *Raquel*, featuring a futuristic, Barbarella-esque, Raquel Welch.

DANCE 424(4089) Formalist Aesthetics of Modernism and Postmodernism in Music, Dance, and Painting

Spring, 4 credits. Limited to 15 students.

A. Fogelsanger.

This seminar examines the formalist side of the aesthetics of modernism from the idea of absolute music and the rise of abstraction in painting, through atonality, modern dance, minimalism, and postmodernism. Includes readings of Sally Banes, Monroe Beardsley, Walter Benjamin, Hans Bertens, Peter Berger, Italo Calvino, Roger Copeland, Susanne Langer, David Michae Levin, Susan Manning, Leonard Meyer, Yvonne Rainer, Meyer Schapiro, Susan Sontag, and others.

DANCE 490(4000) Senior Paper in Dance

Fall and spring, 4 credits. Prerequisite:

DANCE 418, senior standing. Attendance at dance concerts is required.

Under faculty direction, the students write a senior paper in dance history, criticism, or theory.

Interdisciplinary Courses

DANCE 258(3550) Techno Soma Kinesics: Repositioning the Performing Body in Space through the Lenses of Digital Media (LA)

Spring, 4 credits. B. Suber.

Works to expand the specific aesthetics of live performance (music, theatre, and dance) and traditional technological media presentation (sound, film, and video) through the use of emerging digital technologies. Included in the process is the analysis of built environments that both inspire and are designed to be inhabited by these disciplines. This studio course explores the resulting neo-performance forms being created within the range of digital media processing; such as gallery installations, multimedia dance-theatre, personal interactive media (games and digital art) and web projects. Computer-imaging and sound-production programs are examined and used in the class work (human form-animation software [Life Forms], vocal recording and digital editing [Protools and Hyperprism], digital-imaging tools [Photoshop, Final Cut Pro, Flash, Dreamweaver, and Director]. The new context of digital performance raises questions concerning the use of traditional lighting, set, costume, and sound-design techniques that are examined as they are repositioned by digital-translation tools with the goal of creating experimental and/or conceptual multimedia performance and/or installation work. Theoretical texts on dance and theatrical performance, film studies, the dynamic social body, architecture, and digital technology are also used to support conceptual creative work.

[DANCE 319(3590) Music, Dance, and Light (also THETR 319(3190)) (LA)]

Fall, 3 credits. Attendance at dance concerts and music concerts required. Next offered 2007–2008. E. Intemann and A. Fogelsanger.

Artistic values, parameters, and concerns of music (sound design), dance, and lighting design are compared and contrasted, and the combination of design elements is analyzed in contemporary dance.]

DANCE 358(4550) Techno Soma Kinesics II: Repositioning the Performing Body in Space through the Lenses of Digital Media (LA)

Spring, 4 credits. B. Suber.

Continuation of DANCE 258. DANCE 358 expands on principles using more complex and interactive software using MAX/MSP and Jitter, Director, DVD Studio Pro, and Dreamweaver.

DANCE 369(3560) Digital Performance (also THETR 369(3690), MUSIC 356(3441)) (LA)

Fall, 4 credits. Prerequisites: permission of instructors. Laptop computer and MAX/MSP software required, Jitter software encouraged, see www.cycling74.com for student software pricing. Lab performance at end of semester. Recommended: previous enrollment in one of the following: COM S 100, DANCE 210, DANCE 368, MUSIC 120, MUSIC 355, THETR 368, VISST 211. W. Cross and A. Fogelsanger.

Introduction to the multimedia programming language MAX/MSP and its application to computer-interactive dance. Intended to bring together programmers and dancers. Each student will create software patches and pieces movement patches, and collaborate with others on a final project focusing on the input, manipulation, and output of movement sound, video, graphics, and lighting in live performance. Topics include digital audio/video processing, MIDI control, sensor use, electroacoustic music, history state of computer technology and dance up to the present, gestural/expression, choreography, composition, design, and aesthetics. Includes 3-hour Wednesday night lab.

[DANCE 391(3570) Media Arts Studio I (also ART/MUSIC/FILM 391, ARCH 459(659)) (LA)]

Fall or spring, 3 credits. Prerequisite: permission of instructor and junior standing, minimum FILM 377 or 277, or DANCE 258. Equipment fee: \$50 (paid in class). Next offered 2007–2008. Participating faculty include M. Rivchin, film; B. Suber, dance.

A collaborative interdisciplinary studio course in a variety of digital and electronic media, including art, architecture, music, dance, film, and video.]

Production

DANCE 151(1610) Dance Production Laboratory I (also THETR 151(1510))

Fall and spring, 1–3 credits; may be repeated for credit. No prerequisites or experience required. Orientation meeting at 7:30 p.m. first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard.

Provides practical experiences in running stage crew or dresser crew for dance.

DANCE 153(1630) Dance Stage Management Production Laboratory I (also THETR 153(1530))

Fall and spring. 1-2 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 p.m. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in dance production as assistant stage manager for a dance theatre concert under the supervision of the faculty production manager. THETR 370 complements this course.

DANCE 251(2610) Dance Production Laboratory II (also THETR 251(2510))

Fall and spring. 1-3 credits; may be repeated for credit. Prerequisite: permission of instructor. Orientation meeting at 7:30 p.m. on first Tuesday of classes each semester in Kiplinger Theatre at Schwartz Center. P. Lillard, D. Hall, F. Sellers, and R. MacPike.

Practical experience in dance production, as a light board operator, sound board operator, video operator, or head dresser.

DANCE 253(2630) Dance Stage Management Laboratory II (also THETR 253(2530))

Fall and spring. 1-4 credits; may be repeated for credit. Before registering, students must attend orientation meeting at 7:30 p.m. in Kiplinger Theatre at Schwartz Center on first Tuesday of classes. Prerequisite: permission of instructor. P. Lillard.

Practical experience in theatrical production as assistant stage manager for the dance mainstage concert under the supervision of the faculty production manager. THETR 370 complements this course.

DANCE 362(3660) Lighting Design Studio I (also THETR/VISST 362(3620)) (LA)

For description, see THETR 362.

DANCE 368(3680) Sound Design and Digital Audio (also THETR 368(3680), MUSIC 355(3431)) (LA)

For description, see THETR 368.

DANCE 462(4660) Lighting Design Studio II (also THETR 462(4620))

For description, see THETR 462.

Independent Study, Internships, and Honors

DANCE 300(3000) Independent Study

Summer, fall, or spring. 1-4 credits. Independent study in the dance allows students the opportunity to pursue special interests not treated in regularly scheduled courses. A faculty member, who becomes the student's instructor for the course must approve the student's program of study and agree to provide continuing supervision of the work. Students must prepare a proposal for independent study, which is available in 225 Schwartz.

DANCE 485(4850) Undergraduate Internship

Fall, spring, or summer. 1-3 credits. To be eligible to enroll and receive credit for an internship, students must be majors in the department. Students are responsible for arranging their own internships in consultation with the faculty in their area of choice *before* preregistration for the semester in which the internship is planned to take place. To receive credit within this course, the internship must

be unpaid. Students must follow the rules and procedures stated in the departmental internship form.

DANCE 495(4050) Honors Research Tutorial

Fall or spring. 4 credits. Prerequisite: honors students in dance.

First of a two-semester sequence (the second is DANCE 496) for seniors engaged in an honors project. For guidelines, see the director of undergraduate studies in dance.

DANCE 496(4060) Honors Research Tutorial

Fall or spring. 4 credits. Prerequisite: honors students in dance.

Second of a two-semester sequence (the first is DANCE 495) for students engaged in an honors project.

Tracks toward admission into the advanced undergraduate theatre program

Design, Technology, and Stage Management

Recommended for individuals interested in a Design, Technology, or Stage Management track:

THETR 250 Fundamentals of Theatre Design and Technology

THETR 151 and 251 Production Lab I and II (at least 1 credit of each)

Recommended for Scenic Design emphasis:

THETR 340 Theatrical Drafting and

Technical Drawing Studio

THETR 351 Production Lab III (as design assistant)

THETR 354 Stagecraft Studio

THETR 364 Scene Design Studio

Upon admission to the program:

THETR 451 Production Lab IV (at least 1 credit)

Recommended for costume design or costume shop management emphasis:

THETR 351 Production Lab III (as design assistant)

THETR 356 Costume Construction Studio

THETR 366 Costume Design Studio I

THETR 371 Costume Design Studio II

Upon admission to the program:

THETR 451 Production Lab IV (at least 1 credit)

Recommended for Lighting Design or costume shop management emphasis:

THETR 252 Technical Production Studio I

THETR 351 Production Lab III (as student electrician)

THETR 351 Production Lab III (as design assistant)

THETR 362 Lighting Design Studio I

Upon admission to the program:

THETR 451 Production Lab IV (at least 1 credit)

Recommended for Sound Design emphasis:

THETR 251 Production Lab II (as student sound technician)

THETR 252 Technical Production Studio I

THETR 351 Production Lab III (as design assistant)

THETR 368 Sound Design Studio

Upon admission to the program:

THETR 451 Production Lab IV (at least 1 credit)

Recommended for Technical Direction emphasis:

THETR 252 Technical Production Studio I

THETR 256 Technical Production Studio II

THETR 340 Theatrical Drafting and

Technical Drawing Studio

THETR 351 Production Lab III (as assistant technical director)

THETR 354 Stagecraft Studio

Upon admission to the program:

THETR 451 Production Lab IV (at least 1 credit)

Recommended for Stage Management emphasis:

THETR 253 or 353 Stage Management Lab II or III—two assignments

THETR 280 Introduction to Acting

THETR 370 Stage Management Studio

THETR 398 Fundamentals of Directing I

Upon admission to the program:

THETR 453 Stage Management Lab IV

Directing

Recommended for individuals interested in a directing track:

THETR 151 and THETR 251 Production Lab I and II (at least 2 combined credits)

THETR 240/THETR 241 Introduction to Western Theatre (one semester *only*)

THETR 250 Fundamentals of Design and Technology

THETR 280 Introduction to Acting

THETR 398 Directing I

THETR 498 Directing II

Playwriting

Recommended for individuals interested in a playwriting track:

THETR 240/241 Introduction to Western Theatre (one semester *only*)

THETR 250 Fundamentals of Design and Technology

THETR 280 Introduction to Acting

THETR 348 Playwriting

THETR 349 Advanced Playwriting
Students in the advanced undergraduate theatre program may also elect to take FILM 485 (Undergraduate Internship) in addition to or in place of one production assignment.

TURKISH

See "Near Eastern Studies."

TWI/AKAN

See "Africana Studies and Research Center."

UKRAINIAN

See "Department of Russian."

URDU

See "Department of Asian Studies."

VIETNAMESE

See "Department of Asian Studies."

VISUAL STUDIES UNDERGRADUATE CONCENTRATION

Visual studies is a concentration that provides students with an interdisciplinary approach to visual art, media (including digital works), performance, and perception. Faculty from departments throughout the college offer courses toward the concentration, drawing on such various disciplines as the history of art, film, literary studies, psychology, theatre, and others. Requirements for the concentration include the core course VISST 200 Introduction to Visual Studies, which introduces students to critical thinking about visual studies as well as close textual analysis in social and historical contexts. Responsibility for teaching the core course rotates among faculty affiliated with the concentration, and the course, as much as possible, entail interdepartmental collaboration in the form of team-teaching or visiting lectures. In addition to the core course, students must take one course within the Theory/Practice group plus three additional courses at the 300 level or above. No more than two courses from the concentration may be double-counted toward a student's major. All courses must be taken for a letter grade.

Students interested in pursuing the concentration should first discuss it with their current advisors, and then either download the form from the visual studies web site (www.arts.cornell.edu/visualstudies/requirements.htm) or contact the visual studies undergraduate coordinator, Chris Capalongo. After completing the form, students should attach a copy of their transcript and submit it to Chris Capalongo, 409 White Hall. Students who have not been in contact with a visual studies advisor will have one selected for them from among the concentration's affiliated faculty.

Interdisciplinary Graduate Concentration

In the spring of 2004, Cornell began plans for an interdisciplinary graduate concentration in visual studies that will take several years to institutionalize. The concentration in visual studies is not meant to substitute for disciplinary training, which will not be waived by the addition of interdisciplinary courses. The "Course List in Visual Studies for 2006-2007" alerts incoming students to courses that may be relevant to their interests, and aids them in discovering the network of professors working in visual studies, spanning multiple departments and schools at Cornell.

Visual Studies Concentration Course List

VISST 101(1101) Visual Literacy and Interior Design (also DEA 101)

Fall. 3 credits. J. Elliott.
For description, see DEA 101.

VISST 200(2000) Introduction to Visual Studies

Spring. 4 credits. Requirement for undergraduate concentrators. T. Murray. Provides a broad introduction of modes of vision and the historical impact of visual images, visual structures, and visual space on culture, communication, and politics. The question of "how we see" is discussed in terms of (1) procedures of sight (from optical machines to the psychology of vision and the

philosophy of aesthetics); (2) spaces of vision (from landscapes to maps to cities); (3) objects of vision (from sacred sites to illuminated books to digital art); and (4) performances of vision (race, sexualities, ethnicities, cultures). Of importance to the course is the practical and conceptual relation of 20th-century visual technologies (photography, cinema, video, and computing) to their historical corollaries in the arts. The course draws on the visual traditions of both Western and non-Western societies and study texts that have defined the premises and analytic vocabularies of the visual. Through viewings, screenings, collaborative writing, and art projects, students develop the critical skills necessary to appreciate how the approaches that define visual studies complicate traditional models of defining and analyzing art objects. Guest lecturers occasionally address the class. Requirements: two objective midterm exams; occasional listserve postings; two five-page papers.

VISST 203(2020) Introduction to Feminist Theory (also FGSS 202[2020])

Spring. 3 credits. D. Reese.
For description, see FGSS 202.

VISST 211(2711) Beginning Dance Composition (also DANCE 210[2500])

Fall. 3 credits. Concurrent enrollment in DANCE 212 and a dance technique class at appropriate level. Attendance at dance concerts required. J. Self.

VISST 219(2190) Thinking Surrealisms (also ART H 219, COM L 220)

Spring. 3 credits. B. Maxwell.
For description, see COM L 220.

VISST 230(2300) Survey of American Film (also FILM 230(2300), AM ST 230[2760])

Spring. 3 credits. S. Haenni.
For description, see AM ST 230.

VISST 233(2533) Explorations in Movement (also DANCE 233[2410])

Fall. 0 to 1 credit. Limited to 16 students. Attendance at dance concerts required. J. Self.
For description, see DANCE 233.

VISST 235(2430) Hip-Hop Hollywood (also DANCE 235[2430], PE 161[1181])

Fall. 3 credits. J. Self.
For description, see DANCE 235.

VISST 236(2430) Public Voice and Civic Gesture (also DANCE 236, THETR 236)

Fall. 1 credit. P. Suber and B. Milles.
For description, see THETR 236.

VISST 244(2744) Gamelan in Indonesian History and Cultures (also MUSIC 245[1341], ASIAN 245[2245])

Fall and spring. 3 credits. Prerequisite: permission of instructor. No previous knowledge of musical notation or performance experience required. M. Hatch.
For description, see MUSIC 245.

VISST 245(2645) Renaissance and Baroque (also ART H 245[2400])

Fall. 4 credits. Each student must enroll in a sec. C. Lazzaro.
For description, see ART H 245.

VISST 274(674)[2174/6174] Introduction to Film Analysis: Meaning and Value (also FILM 274/674[2740/6740])

Fall. 4 credits. Limited to 40 students. Graduate students should enroll in FILM 674. D. Fredericksen.
For description, see FILM 274/674.

VISST 293(2193) SSP: Middle Eastern Cinema (also NES 293[2793], COM L FILM 293[2930], JWST 291[2793])

Fall. 4 credits. D. Starr.
For description, see NES 293.

VISST 305(3305) Visual Perception (also PSYCH 305)

Fall. 4 credits. Limited to 20 students. Prerequisite: PSYCH 205 or permission of instructor. J. Cutting.
For description, see PSYCH 305.

VISST 308(3508) Dance Technique IV/Modern (also DANCE 308[4220], PE 161[1181])

Fall. 1 credit. By placement only; no pre-enrollment. Attendance at dance concerts required. J. Chu.
For description, see DANCE 308.

VISST 335(3735) Modern Western Drama, Modern Western Theatre: Theory and Practice (also THETR 335, COM L 335[3735], ENGL 335[3530])

Fall. 4 credits. N. Salvato.
For description, see THETR 335.

VISST 342(3342) Human Perception: Application to Computer Graphics, Art, and Visual Display (also PSYCH/COGST 342[3420], PSYCH 642[6420])

Fall. 3 or 4 credits; 4-credit option involves term paper. Prerequisite: PSYCH 101 or permission of instructor. PSYCH 205 strongly recommended. D. Field.
For description, see PSYCH 342.

VISST 348(3480) Film Noir (also AM ST 348, FILM 346)

Spring. 4 credits. S. Haenni.
For description, see AM ST 348.

VISST 356(3560) Computing Cultures (also S&TS/COMM/INFO 356[3561])

Spring. 4 credits. P. Sengers.
For description, see S&TS 356.

VISST 362(3620) Lighting Design Studio I (also THETR 362[3620], DANCE 362[3660])

Fall. 4 credits. E. Intemann.
For description, see THETR 362.

VISST 375(3175) History and Theory of Commercial Narrative Film (also FILM 375[3750])

Fall. 4 credits. Fee for screening expenses: \$10 (paid in class). S. Haenni.
For description, see FILM 375.

VISST 376(3176) History and Theory of Documentary and Experimental Film (also FILM 376[3760])

4 credits. Fee for screening expenses: \$10 (paid in class). A. Villarejo.
For description, see FILM 376.

VISST 385(3850) Commedia: A Contemporization of Physical Acting Styles and the Comic Approach (also THETR 384[3840])

Fall. 4 credits. B. Milles.
For description, see THETR 384.

VISST 387(3870) Literature and Film of South Asia (also COM L 386[3860], ASIAN 387[387])

Spring. 4 credits. A. Banerjee.
For description, see COM L 386.

VISST 393(3930) International Film of the 1970s (also AM ST 393[3930], FILM 393[3930])

Spring. 4 credits. S. Haenni.
For description, see FILM 393.

VISST 394(3655) The House and the World: Architecture of Asia (also ART H 395[3855])

Spring. 4 credits. K. McGowan.
For description, see ART H 395.

VISST 398(3798) Fundamentals of Directing I (also THETR 398[3980])

Fall. 3 credits. Limited to 10 students.
Prerequisite: permission of instructor.
Special consideration given to students who have completed THETR 280 or intend to continue in area of stage or screen directing. Students should see instructor one year in advance to sign up for course.
D. Feldshuh.

For description, see THETR 398.

VISST 400(4200) Proseminar (also ART H 400/600[4100/6100])

Fall. 4 credits. Limited enrollment.
Prerequisite: History of Art majors only.
I. Dadi.

For description, see ART H 400.

VISST 407(4607) The Museum and the Object (also ART H 407[4107])

4 credits. Prerequisites: History of Art majors only. Not open to freshmen or sophomores without permission of instructor. All classes meet in Johnson Art Museum Study Gallery. A. Pan.

For description, see ART H 407.

[VISST 412(4120) Science, Technology and Culture (also COM L 410[4100], S&TS 412[4101])

Fall. 4 credits. Next offered 2007-2008.
A. Banerjee.

For description, see COM L 410.]

VISST 417(4170) Modern Art and Popular Culture (also ART H 417, S HUM 416)

Fall. 4 credits. S. Evans.

For description, see S HUM 416.

VISST 426(4260) Adaption: Text/Theatrically (also THETR 426[4260])

Spring. 4 credits. B. Milles.

For description, see THETR 426.

VISST 430(4630) Topics in American Studies: The Cinema and the American City

Fall. 4 credits. S. Haenni.

For description, see AM ST 430.10.

VISST 477(4770) Intermediate Film and Video Projects: Documentary and Experimental Workshop (also FILM 477[4770])

Fall. 4 credits. M. Rivchin.

For description, see FILM 477.

VISST 480(4800) Advanced Seminar in American Literature: Visual Culture in Women's Literature (also ENGL/FGSS 479[4790], ART H 479[4799])

Fall. 4 credits. S. Samuels.

For description, see ENGL 479.

VISST 619(6619) Translation in Theory (also ASIAN 619[6619])

Spring. 4 credits. B. deBary.

For description, see ASIAN 619.

VISST 634 (6340) Deleuze and Lyotard: Aesthetic Excess and Artistic Practice (also ENGL 629[6290], COM L 634[5340], FRLIT 672)

Spring. 4 credits. T. Murray.

For description, see COM L 634.

VISST 666(6466) Media Theory: Film and Photography (also FRLIT 676, GOVT 666[6665])

Fall. 4 credits. D. Rubenstein.

For description, see GOVT 666.

[VISST 670(6470) Modern Social Theory (also GERST 670[6700], GOVT 670[6705])

Spring. 4 credits. S. Buck-Morss.]

VISST 674(6174) Intro to Film Analysis (also FILM 274/674)

Fall. 4 credits. D. Fredericksen.

For description, see FILM 274.

WELSH

See "Department of Linguistics."

WRITING PROGRAM

See "John S. Knight Institute for Writing in the Disciplines."

YIDDISH

See "Department of Near Eastern Studies."

ZULU

See "Africana Studies and Research Center."

FACULTY ROSTER

For Arts and Sciences Biology faculty see "Biological Sciences."

Abel, Lynne S., Ph.D., Stanford U. Assoc. Prof., Classics

Abtams, Meyer H., Ph.D., Harvard U. Class of 1916 Professor of English Emeritus, English

Abruna, Hector D., Ph.D., U. of North Carolina, Chapel Hill. Emile M. Chamot Professor of Chemistry, Chemistry and Chemical Biology

Abusch, Dorit, Ph.D., U. of Massachusetts, Amherst. Assoc. Prof., Linguistics

Adams, Barry B., Ph.D., U. of North Carolina. Prof. Emeritus, English

Adams, James E., Ph.D., Cornell U. Assoc. Prof., English

Adelson, Leslie A., Ph.D., Washington U. Prof., German Studies

Ahl, Frederick M., Ph.D., U. of Texas, Austin. Prof., Classics/Comparative Literature

Alexander, James P., Ph.D., U. of Chicago. Prof., Physics/LEPP†

Alkire, Elbern H., Ph.D., Cornell U. Sr Lec., Romance Studies

Allmendinger, Richard W., Ph.D., Stanford U. Prof., Earth and Atmospheric Sciences/INSTOC#

Allmon, Warren, Ph.D., Harvard U. Adjunct Assoc. Prof., Earth and Atmospheric Sciences

Almy, James, Ph.D., U. of California, Irvine. Lec., Chemistry

Altschuler, Glenn C., Ph.D., Cornell U. The Thomas and Dorothy Litwin Professor of American Studies, American Studies

Ambegaokar, Vinay, Ph.D., Carnegie Inst. of Technology. Goldwin Smith Professor of Physics, Physics/LASSP*

Amigo-Silvestre, Silvia., M.A., U. of Oregon. Lec., Romance Studies

Anderson, Benedict R., Ph.D., Cornell U. Aaron L. Binenkorb Professor of International Studies Emeritus, Government

Anderson, Christopher J., Ph.D., Washington U. Prof., Government

Andronicos, Christopher L., Ph.D., Princeton U. Assoc. Prof., Earth and Atmospheric Sciences

Arcadi, Adam Clark, Ph.D., U. of Michigan. Asst. Prof., Anthropology

Archer, Richard J., M.A., U. of Missouri, Kansas City. Assoc. Prof., Theatre, Film, and Dance

Arias, Tomas A., Ph.D., Massachusetts Inst. of Technology. Prof., Physics/LASSP*

Arms, William, Ph.D., U. of Sussex. Prof., Computer Science

Armstrong, James, M.M., Bowling Green State U. Lec., Music

Arnesen, Ingrid, M.A., U. of California, Davis; M.A. SUNY Stony Brook. Sr. Lec., English for Academic Purposes

Arroyo, Ciriaco M., Ph.D., U. of Munich (Germany). Emerson-Hinchliff Prof. Emeritus, Romance Studies/Comparative Literature

Ascher, Robert, Ph.D., U. of California, Los Angeles. Prof. Emeritus, Anthropology

Ashcroft, Neil W., Ph.D., Cambridge U. (England). Horace White Professor of Physics Emeritus, Physics/LASSP*

Assié-Lumumba, N'Dri, Ph.D., U. of Chicago. Assoc. Prof., Africana Studies and Research Center

Back, Allen H., Ph.D., U. of California, Berkeley. Sr. Lec., Mathematics

Bailey, Graeme, Ph.D., U. of Birmingham. Prof., Computer Science

Baird, Barbara, Ph.D., Cornell U. Prof., Chemistry and Chemical Biology

Bala, Kavita, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Computer Science

Banerjee, Anindita, Ph.D., U. of California, Los Angeles. Asst. Prof., Comparative Literature

Baptist, Edward, Ph.D., U. of Pennsylvania. Assoc. Prof., History

Bar, Talia, Ph.D., Yale U. Asst. Prof., Economics

Baraldi, Michela, B.A. equivalent, U. of Bologna. Lec., Romance Studies

Barazangi, Muawia, Ph.D., Columbia U. Prof., Earth and Atmospheric Sciences/INSTOC#

Barbasch, Dan, Ph.D., U. of Illinois. Prof., Mathematics

Barseghyan, Levon, Ph.D., Northwestern U. Asst. Prof., Economics

Bassett, William A., Ph.D., Columbia U. Prof. Emeritus, Earth and Atmospheric Sciences

Basu, Alaka, MSc, U. of London. Assoc. Prof., Sociology

Basu, Kaushik, Ph.D., London School of Economics (England). Carl Marks Prof. of International Studies, Economics

Bathrick, David, Ph.D., U. of Chicago. Prof., German Studies/Theatre, Film, and Dance

Bätting von Wittelsbach, Kora, M.A., U. of Zagreb (Croatia). Sr. Lec., Romance Studies

Bauer, Simon H., Ph.D., U. of Chicago. Prof. Emeritus, Chemistry and Chemical Biology

- Baugh, Daniel A., Ph.D., Cambridge U. (England). Prof. Emeritus, History
- Bean, Rachel E., Ph.D., Imperial College (England). Asst. Prof., Astronomy/CRSR†
- Begley, Tadhg P., Ph.D., California Inst. of Technology. Prof., Chemistry and Chemical Biology
- Bekerie, Ayele, Ph.D., Temple U. Asst. Prof., Africana Studies and Research Center
- Bell, James F., Ph.D., U. of Hawaii. Assoc. Prof., Astronomy/CRSR†
- Bem, Daryl J., Ph.D., U. of Michigan. Prof., Psychology
- Bem, Sandra L., Ph.D., U. of Michigan. Prof., Psychology/Feminist, Gender, & Sexuality Studies
- Beneria, Lourdes, Ph.D., Columbia U. Prof., City and Regional Planning/Feminist, Gender, & Sexuality Studies
- Bensel, Richard, Ph.D., Cornell U. Prof., Government
- Béreaud, Jacques, Doctorat d'Univ., U. of Lille (France). Prof. Emeritus, Romance Studies
- Berest, Yuri, Ph.D., U. of Montreal (Canada). Assoc. Prof., Mathematics
- Berezin, Mabel, Ph.D., Harvard U., Assoc. Prof., Sociology
- Berger, Anne, Ph.D., Paris VII (France). Prof., Romance Studies
- Berkelman, Karl, Ph.D., Cornell U. Goldwin Smith Professor of Physics Emeritus, Physics/LEPP¶
- Bernal, Martin G., Ph.D., Cambridge U. (England). Prof. Emeritus, Government/Near Eastern Studies
- Bernstein, Sarah E., M.F.A., Yale U. Sr. Lec., Theatre, Film, and Dance
- Bernstock, Judith, Ph.D., Columbia U. Assoc. Prof., History of Art
- Billera, Louis J., Ph.D., City U. of New York. Prof., Mathematics
- Bilson, Malcolm, D.M.A., U. of Illinois. Frederic J. Whiton Professor of Music Emeritus
- Bird, John M., Ph.D., Rensselaer Polytechnic Inst. Prof. Emeritus, Earth and Atmospheric Sciences
- Birman, Kenneth P., Ph.D., U. of California, Berkeley. Prof., Computer Science
- Bishop, Jonathan P., Ph.D., Harvard U. Prof. Emeritus, English
- Bjerken, Xak, D.M.A., Peabody Conservatory of Music. Assoc. Prof., Music
- Blackall, Jean F., Ph.D., Harvard U. Prof. Emerita, English
- Blackburn, Anne M., Ph.D., U. of Chicago. Assoc. Prof., Asian Studies
- Blacksher, Beverly, Ph.D., Cornell U. Sr. Lec., Africana Studies and Research Center
- Bloom, Arthur L., Ph.D., Yale U. Prof. Emeritus, Earth and Atmospheric Sciences
- Bloser, Tim, Ph.D., Stanford U. Lec., Philosophy
- Blume, Lawrence E., Ph.D., U. of California, Berkeley. Prof., Economics
- Blumin, Stuart M., Ph.D., U. of Pennsylvania. Prof., History
- Bock, David, Ph.D., SUNY Albany. Sr. Lec., Mathematics
- Bodenschatz, Eberhard, Ph.D., U. of Bayreuth (Germany). Adj. Prof., Physics/LASSP*
- Boettcher, Bonna, D.M.A., U. of Iowa. Adj. Prof., Music
- Bogel, Fredric V., Ph.D., Yale U. Prof., English
- Bogel, Lynda Donelia, M.Phil., Yale U. Sr. Lec., English
- Bosteels, Bruno, Ph.D., U. of Pennsylvania. Assoc. Prof., Romance Studies
- Boucher, Daniel, Ph.D., U. of Pennsylvania. Assoc. Prof., Asian Studies, H. Stanley Krusen Professor of World Religions
- Bowers, John S., Ph.D., Massachusetts Inst. of Technology. Prof., Linguistics
- Boyd, Richard N., Ph.D., Massachusetts Inst. of Technology. Prof., Philosophy/Science and Technology Studies
- Boyer, Dominic, Ph.D., U. of Chicago. Assoc. Prof., Anthropology
- Brady, Mary Pat, Ph.D., U. of California, Los Angeles. Assoc. Prof., English
- Bramble, James H., Ph.D., U. of Maryland. Prof. Emeritus, Mathematics
- Brann, Ross, Ph.D., New York U., Milton R. Konvitz Professor of Judeo-Islamic Studies, Near Eastern Studies
- Brazell, Karen W., Ph.D., Columbia U. Prof. Emeritus, Japanese Literature, Asian Studies
- Briggs, Martijna Arts, M.A., O.M.O. Utrecht (The Netherlands). Sr. Lec., German Studies
- Brittain, Charles F., D. Phil., Oxford U. (England). Assoc. Prof., Classics/Philosophy
- Bronfenbrenner, Urie, Ph.D., U. of Michigan, Jacob Gould Schurman Professor Emeritus, Human Ecology/Psychology
- Brookhouse, Stephen Christopher, M.F.A., Virginia Tech. Sr. Lec., Theatre, Film, and Dance
- Brouwer, Piet, Ph.D., Leiden U. Assoc. Prof., Physics/LASSP*
- Brown, Kenneth S., Ph.D., Massachusetts Inst. of Technology. Prof., Mathematics
- Brown, Larry D., Ph.D., Cornell U. Prof., Earth and Atmospheric Sciences/INSTOC#
- Brown, Laura, Ph.D., U. of California, Berkeley. Prof., English
- Browne, E. Wayles, Ph.D., U. of Zagreb (Croatia). Assoc. Prof., Linguistics
- Brumberg, Joan Jacobs, Ph.D., U. of Virginia. S. J. Weiss Presidential Fellow and Prof., Human Development/Feminist, Gender, & Sexuality Studies
- Buck-Morss, Susan F., Ph.D., Georgetown U. Prof., History of Art
- Buettner, Bonnie, Ph.D., Cornell U. Sr. Lec., German Studies
- Bunce, Valerie, Ph.D., U. of Michigan. Prof., Government
- Burlitch, James M., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Chemistry and Chemical Biology
- Burns, Joseph A., Ph.D., Cornell U. Irving Porter Church Professor of Engineering, Astronomy/Theoretical and Applied Mechanics/CRSR†
- Caldwell, Steven B., Ph.D., Cornell U. Assoc. Prof., Sociology
- Campbell, Deborah, M.A., Indiana U., Bloomington. Sr. Lec., English for Academic Purposes
- Campbell, Donald B., Ph.D., Cornell U. Prof., Astronomy/NAIC‡
- Campbell, Timothy C., Ph.D., Columbia U. Assoc. Prof., Romance Studies
- Campos, Michelle, Ph.D., Stanford U. Asst. Prof., Near Eastern Studies
- Cao, Xiaodong, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Mathematics
- Caputi, Anthony F., Ph.D., Cornell U. Prof. Emeritus, English/Comparative Literature
- Carden, Patricia J., Ph.D., Columbia U. Prof., Russian
- Cardie, Claire, Ph.D., U. of Massachusetts. Assoc. Prof., Computer Science
- Carlacio, Jami, Ph.D., U. of Wisconsin. Lec., English
- Carlson, Allen, Ph.D., Yale U. Assoc. Prof., Government
- Carmichael, Calum M., LL.D., Glasgow U. (Scotland). Prof., Comparative Literature/Biblical Studies
- Caron, Vicki, Ph.D., Columbia U. Prof., Thomas and Diann Mann Chair in Modern Jewish Studies, History/Jewish Studies Program
- Carpenter, Barry K., Ph.D., U. Coll., London (England). Prof., Chemistry and Chemical Biology
- Carrillo, Loretta, Ph.D., Michigan State U. Sr. Lec., Romance Studies/Latino Studies
- Carroll, Noel, Ph.D., U. of Illinois. Assoc. Prof., Theatre Arts/Philosophy
- Caruana, Richard, Ph.D., Carnegie Mellon U. Asst. Prof., Computer Science
- Case, Holly, Ph.D., Stanford U. Asst. Prof., History
- Cassel, David G., Ph.D., Princeton U. Prof., Physics/LEPP¶
- Cassel, Edith Hertha, Ph.D., U. of Heidelberg. Sr. Lec., Physics
- Castillo, Debra, Ph.D., U. of Wisconsin, Milwaukee. Emerson-Hinchliff Prof., Romance Studies/Comparative Literature
- Cathles, Lawrence M., III, Ph.D., Princeton U. Prof., Earth and Atmospheric Sciences
- Cerione, Richard, Ph.D., Rutgers U. Prof., Chemistry and Chemical Biology
- Cervesi, Flaminia, M.A., Washington U. Sr. Lec., Romance Studies
- Chaloemtiarana, Thak, Ph.D., Cornell U. Assoc. Prof., Asian Studies
- Chan, Garnet Kin-Lic, Ph.D., Christ's Coll. Asst. Prof., Chemistry and Chemical Biology
- Chang, Derek, Ph.D., Duke U. Asst. Prof., History/Asian American Studies
- Chase, Cynthia, Ph.D., Yale U. Prof., English/Comparative Literature
- Chase, Stephen U., Ph.D., U. of Chicago. Prof., Mathematics
- Chen, Jian, Ph.D., South Illinois. Prof., The Michael J. Zak Chair of History for US-China Relations, History/China and Asia-Pacific Studies
- Chen, Peng, Ph.D., Stanford U. Asst. Prof., Chemistry and Chemical Biology
- Chen, Zhihong, Ph.D., U. of Cologne (Germany). Adj. Asst. Prof., History/Asian Studies
- Chernoff, David F., Ph.D., U. of California, Berkeley. Prof., Astronomy/CRSR†
- Chester, Geoffrey V., Ph.D. King's Coll. London (England). Prof. Emeritus, Physics/LASSP*
- Cheyfitz, Eric, Ph.D., Johns Hopkins U. Prof., English
- Chignell, Andrew, Ph.D., Yale U. Asst. Prof., Philosophy
- Chirik, Paul J., Ph.D., California Inst. of Technology. Asst. Prof., Chemistry and Chemical Biology
- Christiansen, Morten, Ph.D., U. of Edinburgh (Scotland). Asst. Prof., Psychology
- Chu, Jumay Ruth, B.A., U. of California, Berkeley. Sr. Lec., Theatre, Film and Dance
- Cisne, John L., Ph.D., U. of Chicago. Prof., Earth and Atmospheric Sciences/INSTOC#
- Clinton, Kevin M., Ph.D., Johns Hopkins U. Prof., Classics
- Coate, Stephen, Ph.D., Northwestern U. Kiplinger Professor of Economic Policy, Economics
- Coates, Geoffrey, Ph.D., Stanford U. Prof., Chemistry and Chemical Biology
- Cohen, Itai, Ph.D., U. of Chicago. Asst. Prof., Physics/LASSP*
- Cohen, Marshall M., Ph.D., U. of Michigan. Prof. Emeritus, Mathematics
- Cohen, Yurii, Ph.D., Cornell U. Lec., Philosophy
- Cohen, Walter I., Ph.D., U. of California, Berkeley. Prof., Comparative Literature

- Cohn, Abigail C., Ph.D., U. of California, Los Angeles. Assoc. Prof., Linguistics
- Colby-Hall, Alice M., Ph.D., Columbia U. Prof. Emerita, Romance Studies
- Cole, Stephen R., B.A., U. of Indiana. Assoc. Prof., Theatre, Film and Dance
- Coleman, John E., Ph.D., U. of Cincinnati. Prof., Classics
- Collum, David B., Ph.D., Columbia U. Prof., Chemistry and Chemical Biology
- Colucci, Stephen J., Ph.D., SUNY Albany. Prof., Earth and Atmospheric Sciences
- Connelly, Robert, Ph.D., U. of Michigan. Prof., Mathematics
- Constable, Robert L., Ph.D., U. of Wisconsin. Prof., Computer Science
- Cook, Kerry H., Ph.D., N. Carolina State U. Prof., Earth and Atmospheric Sciences
- Cooke, W. Donald, Ph.D., U. of Pennsylvania. Prof. Emeritus, Chemistry and Chemical Biology
- Cordes, James M., Ph.D., U. of California, San Diego. Prof., Astronomy/NAIC†
- Corpis, Duane J., Ph.D., New York U. Asst. Prof., History
- Correll, Barbara, Ph.D., U. of Wisconsin. Assoc. Prof., English
- Correll, Shelley, Ph.D., Stanford U. Asst. Prof., Sociology
- Corson, Dale R., Ph.D., U. of California, Berkeley. Prof. Emeritus, Physics
- Cotts, Robert M., Ph.D., U. of California, Berkeley. Prof. Emeritus, Physics/LASSP*
- Cowden, Jonathan, Ph.D., Yale U. Asst. Prof., Government
- Craib, Raymond, Ph.D., Yale U. Assoc. Prof., History
- Crane, Brian R., Ph.D., Scripps Research Inst.. Asst. Prof., Chemistry and Chemical Biology
- Cross, Warren Dennis, B.A., SUNY Stony Brook. Lec., Theatre, Film, and Dance
- Csaki, Csaba, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Physics/LEPP†
- Culler, Jonathan D., D. of Phil., Oxford U. (England). Class of 1916 Professor, English/Comparative Literature
- Cutting, James E., Ph.D., Yale U. Prof., Psychology
- Dadi, Iftikhar, Ph.D., Cornell U. Asst. Prof., History of Art
- Dannhauser, Werner J., Ph.D., U. of Chicago. Prof. Emeritus, Government
- Darlington, Richard B., Ph.D., U. of Minnesota. Prof., Psychology
- Davis, H. Floyd, Ph.D., U. of California, Berkeley. Prof., Chemistry and Chemical Biology
- Davis, J. C. Seamus, Ph.D., U. of California, Berkeley. Prof., Physics/LASSP*
- Davis, Stuart Arrowsmith, M.Phil., Yale U. Sr. Lec., English
- Davis, Tom E., Ph.D., Johns Hopkins U. Prof. Emeritus, Economics
- Dear, Peter, Ph.D., Princeton U. President Andrew D. White Professor of the History of Science
- DeGaetano, Arthur T., Ph.D., Rutgers U. Assoc. Prof., Earth and Atmospheric Science
- de Bary, Brett, Ph.D., Harvard U. Prof., Asian Studies/Comparative Literature
- Deinert, Herbert, Ph.D., Yale U. Prof. Emeritus, German Studies
- DeLoughrey, Elizabeth, Ph.D., U. of Maryland. Asst. Prof., English
- Dennis, R. Keith, Ph.D., Rice U. Prof., Mathematics
- Derry, Louis A., Ph.D., Harvard U. Assoc. Prof., Earth and Atmospheric Sciences
- DeVoogd, Timothy J., Ph.D., U. of Illinois. Prof., Psychology
- Diaz-Insensé, Natalie, Ph.D., Cornell U. Sr. Lec., Romance Studies
- Diesing, Molly, Ph.D., U. of Massachusetts, Amherst. Prof., Linguistics
- Diffloth, Hairhin, B.A., Ewha Women's U. (Korea). Sr. Lec., Asian Studies
- DiSalvo, Francis J. Jr., Ph.D., Stanford U. John A. Newman Professor of Physical Science, Chemistry and Chemical Biology
- Divo-Hoare, Stephanie Alison, Ph.D., Cornell U. Sr. Lec., Asian Studies
- Donaldson, Laura, Ph.D., Emory U. Prof., English
- Dozier, Eleanor, M.A., Cornell U. Sr. Lec., Romance Studies
- Dugan, Gerald F., Ph.D., Columbia U. Prof., Physics/LEPP†
- Dunning, David, Ph.D., Stanford U. Prof., Psychology
- Durrett, Richard T., Ph.D., Stanford U. Prof., Mathematics
- Dynkin, Eugene B., Dr. of Sci., Moscow U. (Russia). Abram R. Bullis Professor of Mathematics
- Ealick, Steven, Ph.D., U. of Oklahoma. Prof., Chemistry and Chemical Biology
- Earle, Clifford J., Ph.D., Harvard U. Prof. Emeritus, Mathematics
- Easley, David, Ph.D., Northwestern U. Henry Scarborough Prof. of Social Sciences, Economics
- Eberhard, Carolyn, Ph.D., Boston U. Sr. Lec., Plant Biology
- Eddy, Donald D., Ph.D., U. of Chicago. Prof. Emeritus, English
- Edelman, Shimon, Ph.D., Weizmann Inst. of Science (Israel). Prof., Psychology
- Edmondson, Locksley G., Ph.D., Queens U. (Canada). Prof., Africana Studies and Research Center
- Ehrenberg, Ronald, Ph.D., Northwestern U. Prof., Industrial and Labor Relations/Economics
- Eklund, Matti, Ph.D., Massachusetts Inst. of Technology. Asst. Prof., Philosophy
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